



BPW Repair Kits

Valid: **1.08.2012**

This list shows repair kits for BPW trailer axles, steering axles, air suspensions and drawbars. Additional spare parts as per BPW spare parts catalogues.

Current versions and additional informations can be found online at www.bpw.de.

Subject to change (without notice).

 -parts are embossed with BPW Code no.

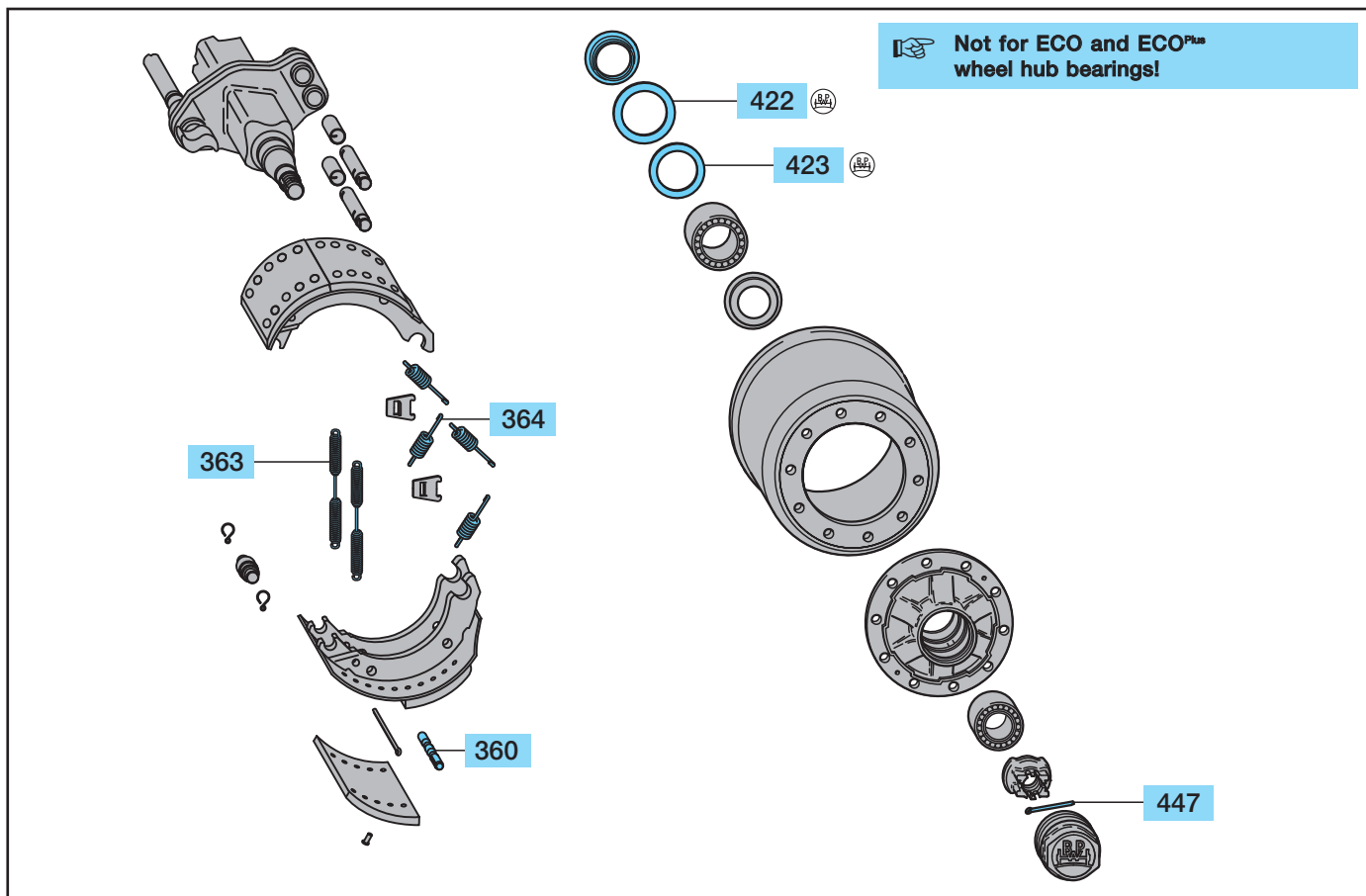
Repair kits are only available as complete kit!

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Repair kits for BPW axles with drum brake

1.1 Brake SN 42..

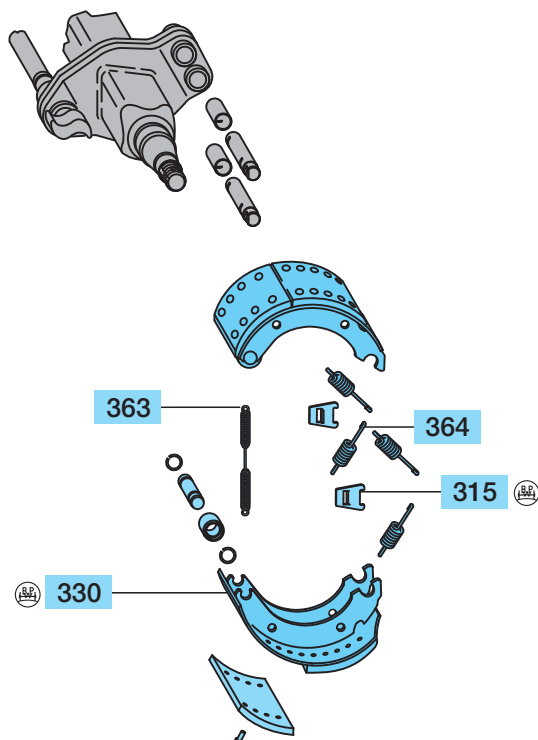
H



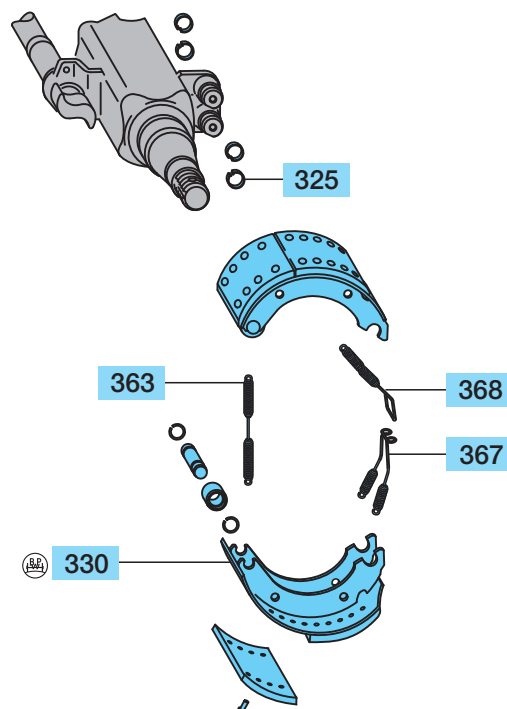
Brake SN 42..					Axle type H / R		
		Axle type		Brake	Year of manuf.		
		H.. / R.. 8 - 9 t		SN 4216-2	1984 - 95	H.. / R.. 10 - 12 t	
				SN 4218-2	1984 - 95	SN 4220-2	
				SN 4220-2	1984 - 95	SN 4222-2	
item	Description	Quantity / Pieces	BPW Code no.	Dimension			
305	Repair kit brake without brake shoes, with hub sealing item 360 - 364, 422 - 447		09.801.02.01.0	for 1 axle		09.801.02.02.0	for 1 axle
380	Splined pin	4	03.001.08.05.0	Ø 12 x 90		03.001.08.05.0	Ø 12 x 90
363	Return spring	4	05.397.46.07.0	Ø 25 / 4 x 262		05.397.46.07.0	Ø 25 / 4 x 262
364	Return spring	8	03.397.44.06.0	Ø 21 / 4 x 105		03.397.44.06.0	Ø 21 / 4 x 105
422	Ring (Nylon)	2	03.310.97.31.0	Ø 110 / 141 x 2.5		03.310.98.21.0	Ø 128 / 165 x 2.5
423	Ring (Nylon)	2	03.310.97.32.0	Ø 104 / 136 x 2.5		03.310.97.30.0	Ø 128 / 157 x 2.5
447	Split pin	2	02.6201.82.01	8 x 50 / 1234		02.6201.84.01	8 x 63 / 1234

Brake SN 42.. 1.1

H



Design features up to 1995:
Brake anchor plate and brake bolt 2-piece,
brake shoes fixed using shaped plate (item 315).



Design features from 1995 onwards:
Brake anchor plate and brake bolt 1-piece,
brake shoes fixed using 'C' Clip (item 325).

Brake SN 42..				Axle type H / R			
			Axle type	Brake	Year of manuf.		
			H.. / R.. 8 - 12 t	SN 4218	1984 -	H.. / R.. 8 - 18 t	SN 4220
item	Description	Quantity / Pieces	BPW Code no.	Dimension			
327	Repair kit brake without brake shoes item 315, 325, 363 - 368		09.801.02.44.0	for 1 axle		09.801.02.44.0	for 1 axle
328	Repair kit brake with brake shoes item 327 + 330		09.801.02.39.0	for 1 axle		09.801.02.38.0	for 1 axle
315	Shaped plate	4	03.167.23.09.0		03.167.23.09.0		
325	'C' Clip	8	03.188.02.02.0		03.188.02.02.0		
330	Brake shoe assy.	4	05.091.46.14.1		05.091.27.82.1		
363	Return spring	2	05.397.58.03.0	Ø 34 / 5 x 274	05.397.58.03.0	Ø 34 / 5 x 274	
364	Return spring	8	03.397.44.06.0	Ø 21 / 4 x 105	03.397.44.06.0	Ø 21 / 4 x 105	
367	Return spring (Retention spring)	2	03.397.33.06.0	Hook	03.397.33.06.0	Hook	
368	Return spring (Retention spring)	2	03.397.33.07.0	Eye	03.397.33.07.0	Eye	

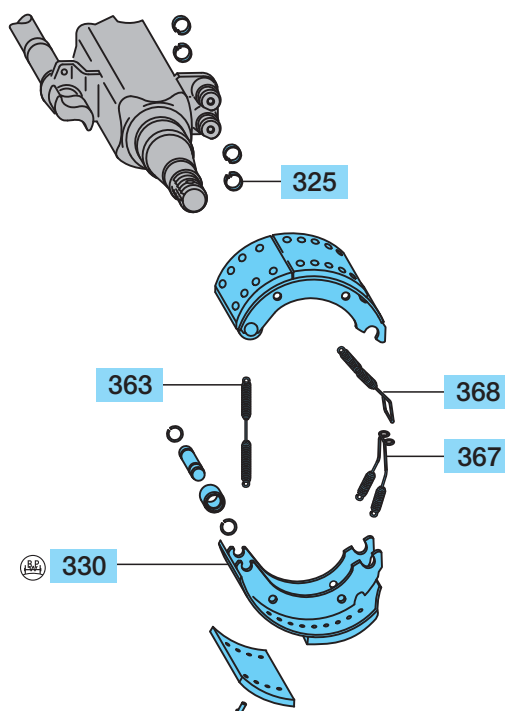


The axle beam and the brake were modified when the BPW 95 brake / ECO Drum brake was introduced. The aforementioned repair kits cover the versions before and after 1995. The illustrations above show the designation of the particular components.

Repair kits for BPW axles with drum brake

1.1 Brake SN 42..

H

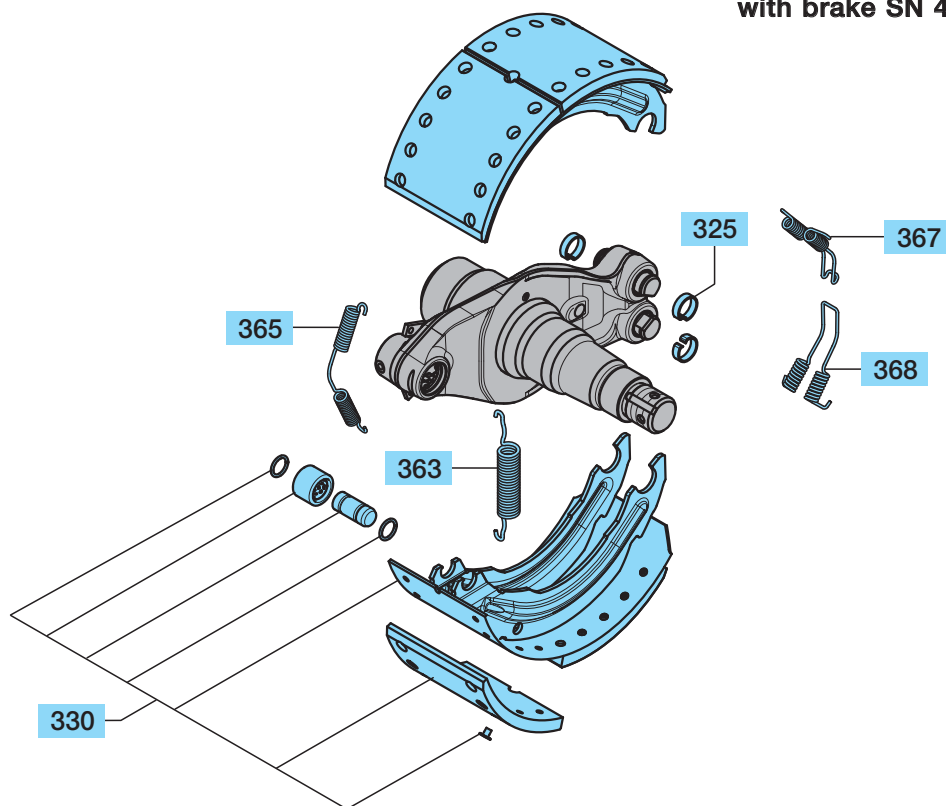


Design features from 1995 onwards:
Brake anchor plate and brake bolt 1-piece,
brake shoes fixed using 'C' Clip (item 325).

Brake SN 42.. BPW 95 / ECO Drum					Axle type H / R		
		Axle type		Brake	Year of manuf.		
		H.. / R.. 8 - 12 t	SN 4218	1995 -	H.. / R.. 8 - 18 t	SN 4220	1995 -
item	Description	Quantity / Pieces	BPW Code no.	Dimension			
327	Repair kit brake without brake shoes item 325, 363 - 368		09.801.06.79.0	for 1 axle	09.801.06.79.0	for 1 axle	
328	Repair kit brake with brake shoes item 327 + 330		09.801.07.39.0	for 1 axle	09.801.07.49.0	for 1 axle	
325	'C' Clip	8	03.188.02.02.0		03.188.02.02.0		
330	Brake shoe assy.	4	05.091.46.32.1		05.091.47.04.1		
363	Return spring	2	05.397.58.03.0	Ø 34 / 5 x 274	05.397.58.03.0	Ø 34 / 5 x 274	
367	Return spring (Retention spring)	2	03.397.33.12.0	Hook	03.397.33.12.0	Hook	
368	Return spring (Retention spring)	2	03.397.33.13.0	Eye	03.397.33.13.0	Eye	

Brake SN 4218 ECO Drum 1.1

for axle stud MVBST 10010
with brake SN 4218 ECO Drum



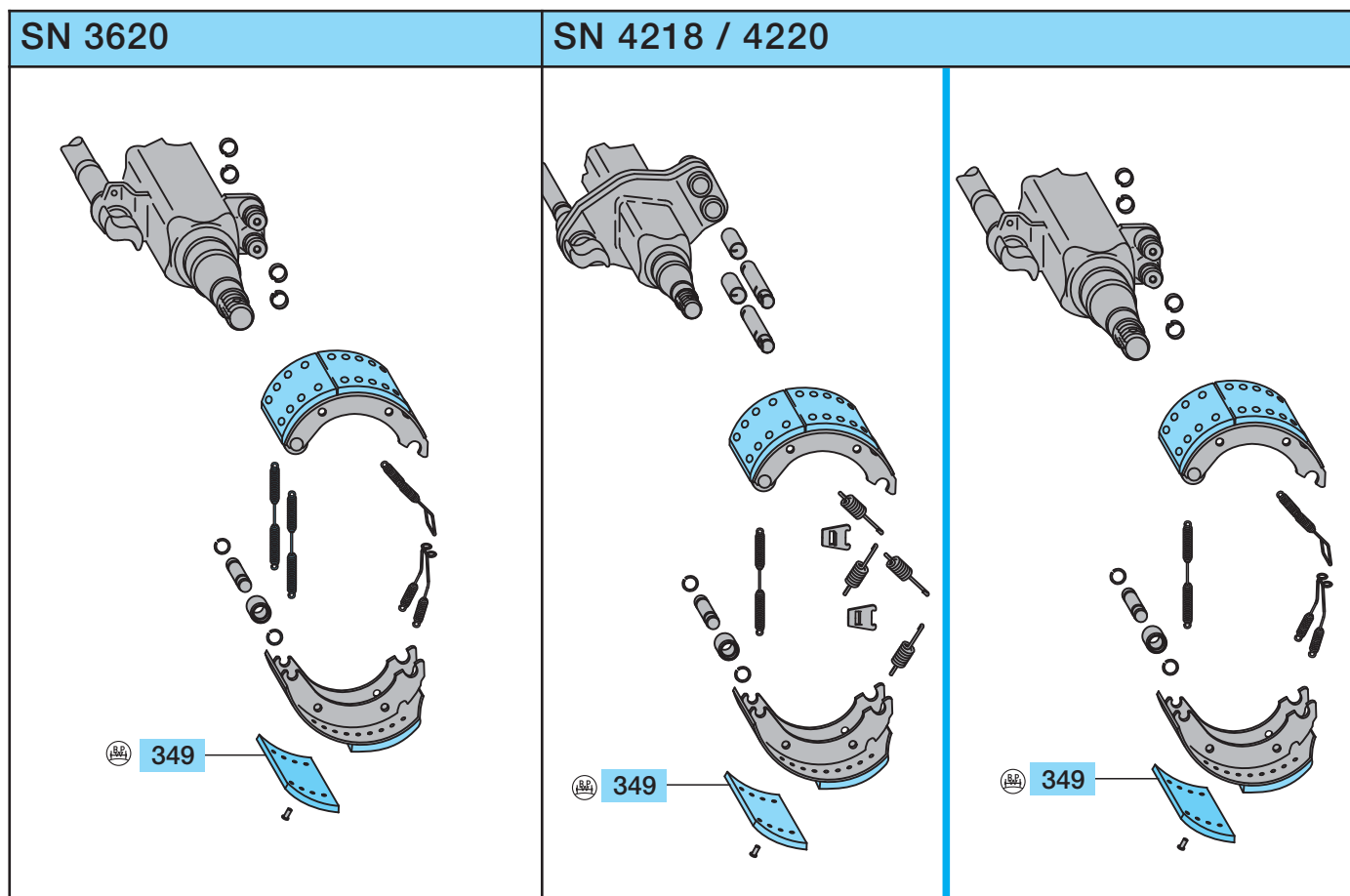
Brake SN 4218 ECO Drum			Axle type MVBST 10010	
			Axle type	Brake
			MVBST 10010	SN 4218
			Year of manuf.	
			7/2008 -	
item	Description	Quantity / Pieces	BPW Code no.	Dimension
328	Repair kit brake with brake shoes item 325, 330, 363 - 368		09.801.07.48.0	for 1 axle side
325	'C' Clip	4	03.188.02.02.0	
330	Brake shoe assy.	2	05.091.46.32.1	
363	Return spring	1	03.397.46.14.0	Ø 25.5 / 4.5 x 200
365	Return spring	1	03.397.34.20.0	Ø 16 / 3.6
367	Return spring (Retention spring)	1	03.397.33.06.0	Hook
368	Return spring (Retention spring)	1	03.397.33.07.0	Eye

Repair kits for BPW axles with drum brake

1.1 Brake linings SN 3620 / 42..

H

K



Brake linings SN 3620				Axle type K..	
		Axle type	Brake	Year of manuf.	
		K.. 6 - 12 t	SN 3620	all	
item	Description	Quantity / Pieces	BPW Code no.	Dimension	
349	Repair kit brake lining	8 linings	09.801.08.04.0	18 mm	

Brake linings SN 42..				Axle type H.. / R..		
		Axle type	Brake	Year of manuf.		
		H.. / R.. 6 - 12 t	SN 4218	all	H.. / R.. 8 - 20 t	SN 4220
					all	
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
349	Repair kit brake lining	8 linings	09.801.07.41.0	18 mm	09.801.07.45.0	18 mm
			09.801.07.42.0	19 mm	09.801.07.46.0	19 mm
			09.801.07.43.0	20 mm	09.801.07.47.0	20 mm

Notes

K

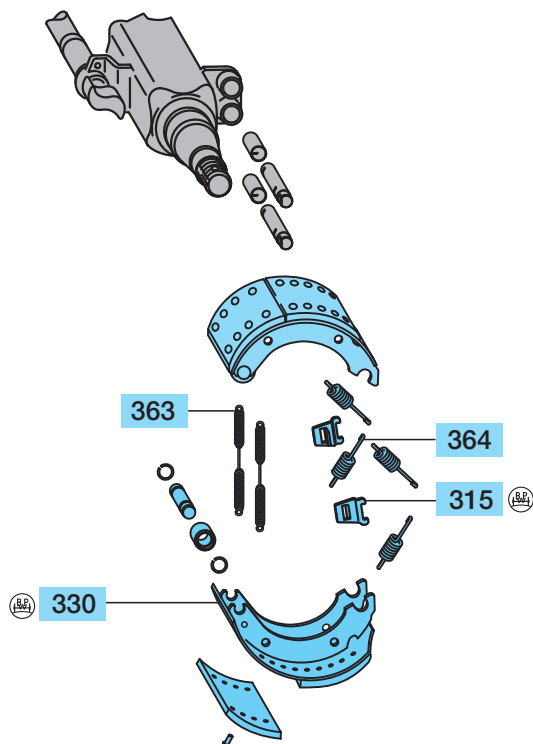
K



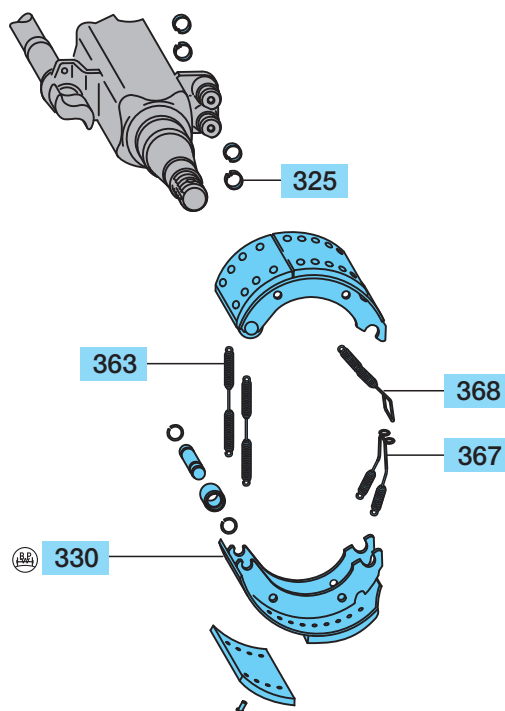
K

Brake SN 3620 1.2

K



Design features up to 1995:
Brake anchor plate and brake bolt 2-piece,
brake shoes fixed using shaped plate (item 315).



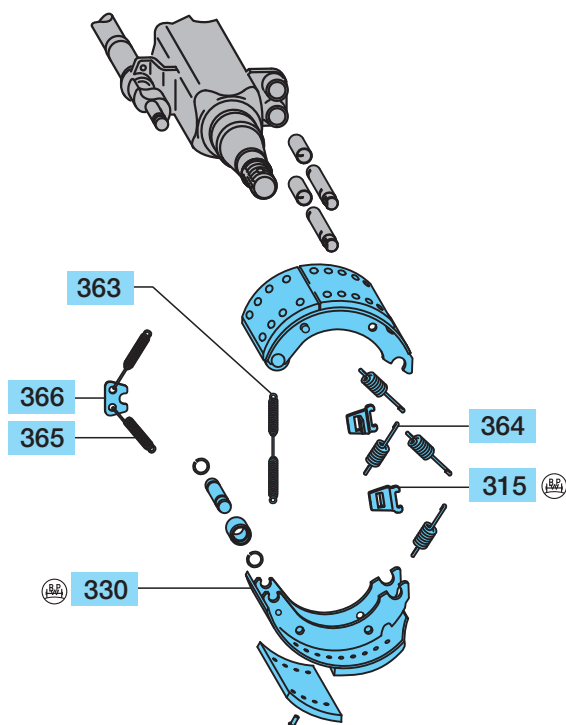
Design features from 1995 onwards:
Brake anchor plate and brake bolt 1-piece,
brake shoes fixed using 'C' Clip (item 325).

Brake SN 3620				Axle type KH / KR		
		Axle type	Brake	Year of manuf.		
		K.. 8 - 12 t	SN 3620	1984 -	K.. 8 - 12 t	SN 3620 1995 -
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
327	Repair kit brake without brake shoes item 315, 325, 363 - 368		09.801.02.45.0	for 1 axle	09.801.06.81.0	for 1 axle
328	Repair kit brake with brake shoes item 327 + 330		09.801.02.40.0	for 1 axle		
315	Shaped plate	4	03.167.23.09.0		-	
325	'C' Clip	8	03.188.02.02.0		03.188.02.02.0	
330	Brake shoe assy.	4	05.091.19.22.1		-	
363	Return spring	4	05.397.46.13.0	Ø 24.5 / 4 x 236	05.397.46.13.0	Ø 24.5 / 4 x 236
364	Return spring	8	03.397.44.06.0	Ø 21 / 4 x 105	-	
367	Return spring (Retention spring)	2	03.397.33.12.0	Hook	03.397.33.12.0	Hook
368	Return spring (Retention spring)	2	03.397.33.13.0	Eye	03.397.33.13.0	Eye

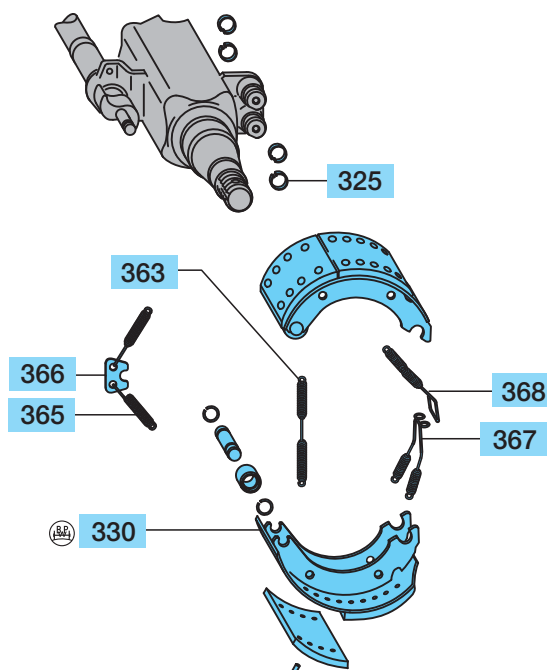
The axle beam and the brake were modified when the BPW 95 brake / ECO Drum brake was introduced.
The aforementioned repair kits cover the versions before and after 1995.
The illustrations above show the designation of the particular components.

Repair kits for BPW axles with drum brake

1.2 Brake SN 3616



Design features up to 1995:
Brake anchor plate and brake bolt 2-piece,
brake shoes fixed using shaped plate (item 315).



Design features from 1995 onwards:
Brake anchor plate and brake bolt 1-piece,
brake shoes fixed using 'C' Clip (item 325).

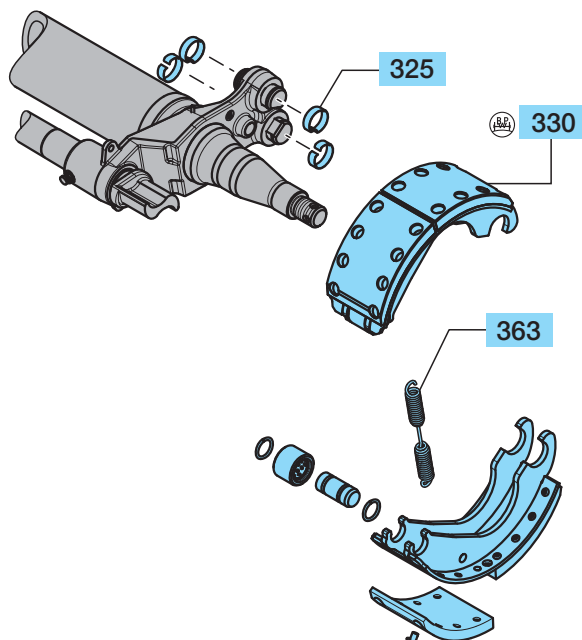
SN 3616

Axle type KH / KR

		Axle type	Brake	Year of manuf.
		K.. 6.4 - 9 t	SN 3616	1984 -
Item	Description	Quantity / Pieces	BPW Code no.	Dimension
327	Repair kit brake without brake shoes item 315, 325, 363 - 368		09.801.02.46.0	for 1 axle
328	Repair kit brake with brake shoes item 327 + 330		09.801.02.41.0	for 1 axle
315	Shaped plate	4	03.167.23.09.0	
325	'C' Clip	8	03.188.02.02.0	
330	Brake shoe assy.	4	05.091.19.24.1	
363	Return spring	2	05.397.46.13.0	Ø 24.5 / 4 x 236
364	Return spring	8	03.397.44.06.0	Ø 21 / 4 x 105
365	Return spring	4	03.397.44.10.0	Ø 22 / 4 x 119
366	Plate	2	03.285.22.05.0	
367	Return spring (Retention spring)	2	03.397.33.12.0	Hook
368	Return spring (Retention spring)	2	03.397.33.13.0	Eye

 The axle beam and the brake were modified when the BPW 95 brake / ECO Drum brake was introduced.
The aforementioned repair kits cover the versions before and after 1995.
The illustrations above show the designation of the particular components.

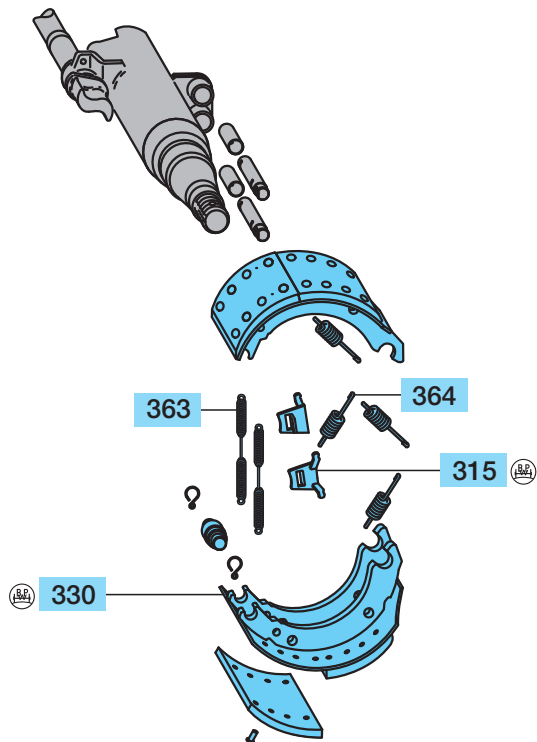
Brake SN 3010 BPW 95 1.3



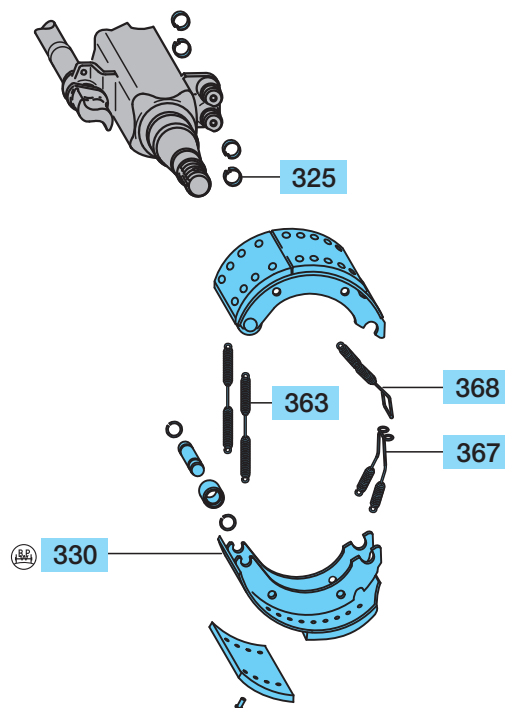
SN 3010			Axle type NR		
			Axle type	Brake	Year of manuf.
			NR.. 5.5 - 7 t	SN 3010	1995 -
item	Description	Quantity / Pieces	BPW Code no.	Dimension	
328	Repair kit brake with brake shoes item 325, 330, 363		09.801.07.74.0	for 1 axle	
325	'C' Clip	8	03.188.02.02.0		
330	Brake shoe assy.	4	05.091.12.27.1		
363	Return spring	2	05.397.34.17.0	Ø 20 / 3.6 x 180	

Repair kits for BPW axles with drum brake

1.3 Brake SN 30..



Design features up to 1995:
Brake anchor plate and brake bolt 2-piece,
brake shoes fixed using shaped plate (item 315).



Design features from 1995 onwards:
Brake anchor plate and brake bolt 1-piece,
brake shoes fixed using 'C' Clip (item 325).

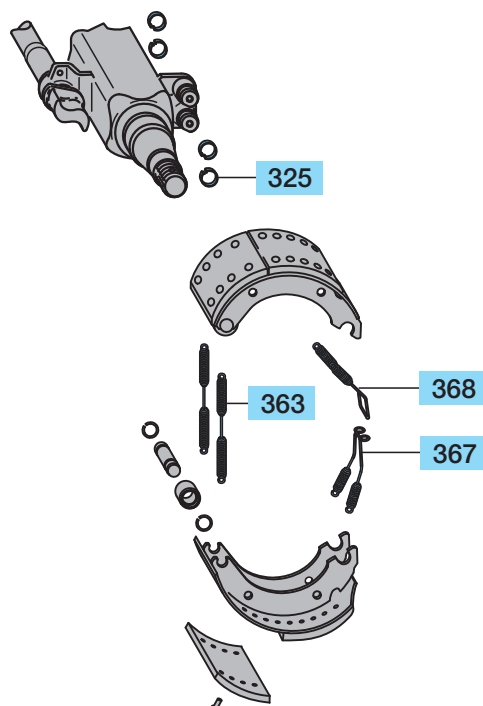
Brake SN 30..

Axle type NH / NR

		Axle type			Year of manuf.		
		N.. 6 - 9 t		SN 3015	1990 -	N.. 8 - 13 t	
				SN 3020	1990 -		
item	Description	Quantity / Pieces	BPW Code no.	Dimension			
327	Repair kit brake without brake shoes item 315, 325, 363 - 368		09.801.02.47.0	for 1 axle		09.801.02.47.0	for 1 axle
328	Repair kit brake with brake shoes item 327 + 330		09.801.02.43.0	for 1 axle		09.801.02.42.0	for 1 axle
315	Shaped plate	4	03.167.24.01.0			03.167.24.01.0	
325	'C' Clip	8	03.188.02.02.0			03.188.02.02.0	
330	Brake shoe assy.	4	05.091.15.05.1			05.091.14.77.1	
363	Return spring	4	05.397.34.17.0	Ø 20 / 3.6 x 180		05.397.34.17.0	Ø 20 / 3.6 x 180
364	Return spring	8	03.397.44.06.0	Ø 21 / 4 x 105		03.397.44.06.0	Ø 21 / 4 x 105
367	Return spring (Retention spring)	2	03.397.33.08.0	Hook		03.397.33.08.0	Hook
368	Return spring (Retention spring)	2	03.397.33.09.0	Eye		03.397.33.09.0	Eye

 The axle beam and the brake were modified when the BPW 95 brake / ECO Drum brake was introduced.
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Brake SN 30.. BPW 95 1.3

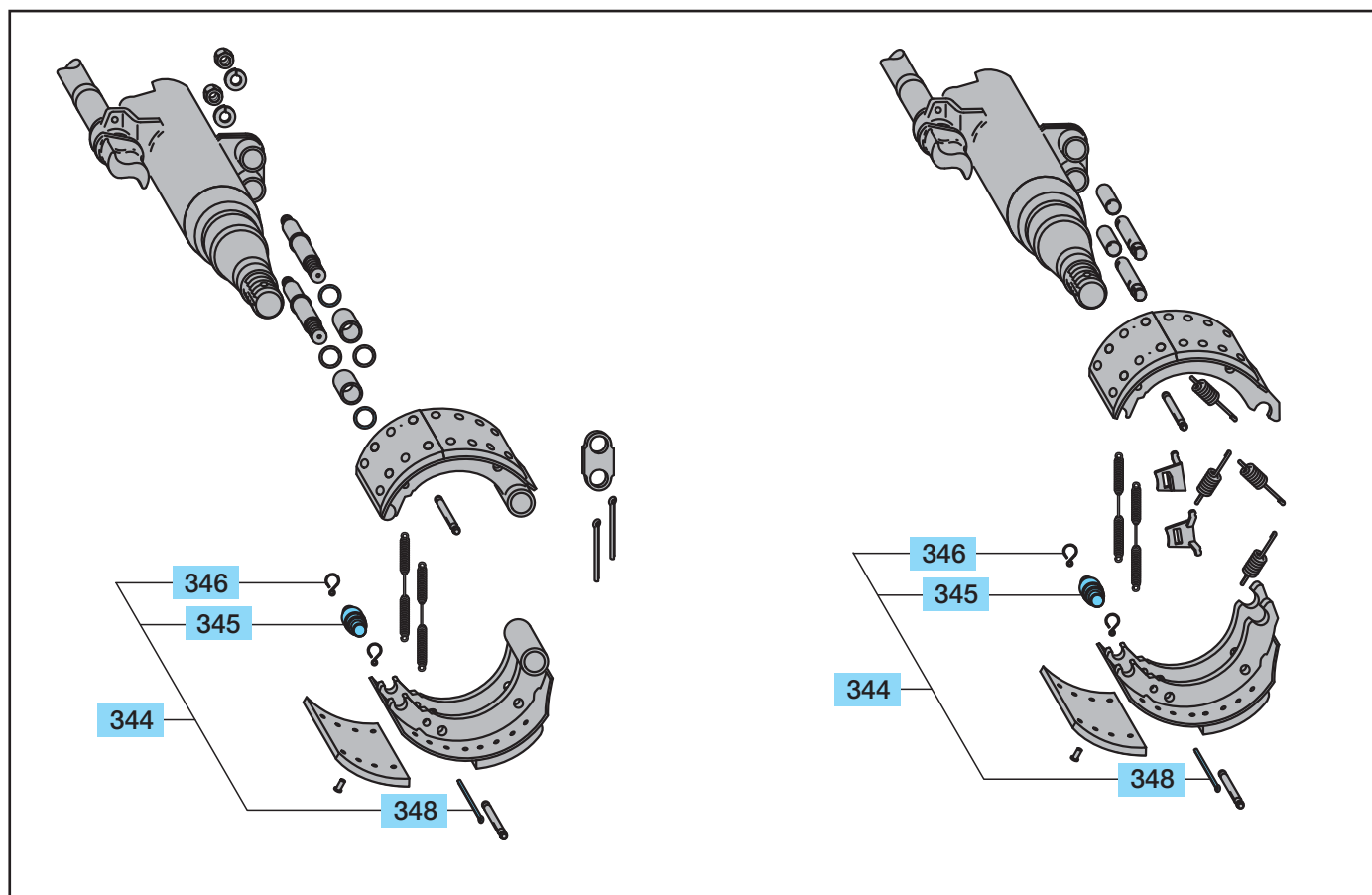


Design features from 1995 onwards:
Brake anchor plate and brake bolt 1-piece,
brake shoes fixed using 'C' Clip (item 325).

Brake SN 30.. BPW 95					Axle type NH / NR	
			Axle type	Brake	Year of manuf.	
			N.. 6 - 9 t	SN 3015	1995 -	N.. 8 - 13 t
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
327	Repair kit brake without brake shoes item 325, 363, 367, 368		09.801.06.80.0	for 1 axle	09.801.06.80.0	for 1 axle
328	Repair kit brake with brake shoes item 327 + 330		09.801.08.01.0	for 1 axle	09.801.08.02.0	for 1 axle
325	'C' Clip	8	03.188.02.02.0		03.188.02.02.0	
330	Brake shoe assy.	4	05.091.15.05.1		05.091.14.77.1	
363	Return spring	4	05.397.34.17.0	Ø 20 / 3.6 x 180	05.397.34.17.0	Ø 20 / 3.6 x 180
367	Return spring (Retention spring)	2	03.397.33.08.0	Hook	03.397.33.08.0	Hook
368	Return spring (Retention spring)	2	03.397.33.09.0	Eye	03.397.33.09.0	Eye

Repair kits for BPW axles with drum brake

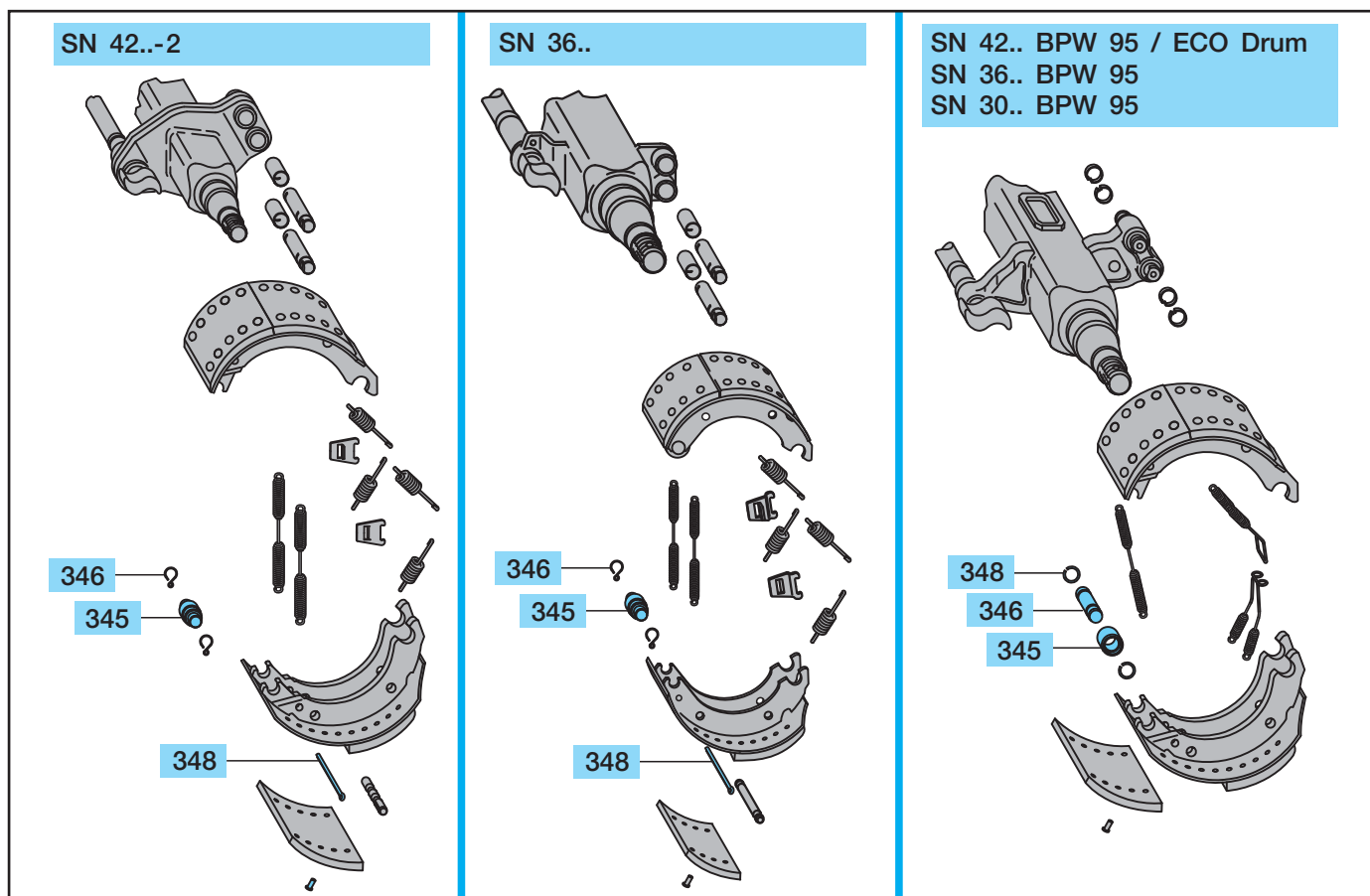
1.4 Brake shoe roller



Brake shoe roller

			Axle type	Brake	Year of manuf.			
			N..	SN 3015-1 SN 3020-1 Brake shoes with closed anchor eye ---.---.582. / 586.---	1982-1989	N..	SN 3015 SN 3020 Quick-release brake shoes ---.---.592. / 596.---	1990 - 1995
item	Description	Quantity / Pieces	BPW Code no.		Dimension			
344	Repair kit Brake shoe roller item 345 - 348		09.801.02.11.0		for 1 axle	09.801.02.12.0 for 1 axle		
345	Roller	4	03.331.34.01.0		Ø 26 / 42 x 78	03.331.34.01.0 Ø 26 / 42 x 78		
346	Shackle	8	03.232.13.01.0			-		
346	Circlip	8	-			03.350.00.14.0		
348	Split pin	4	02.6201.83.03		8 x 71 / 1234	02.6201.66.03 6.3 x 90 / 1234		

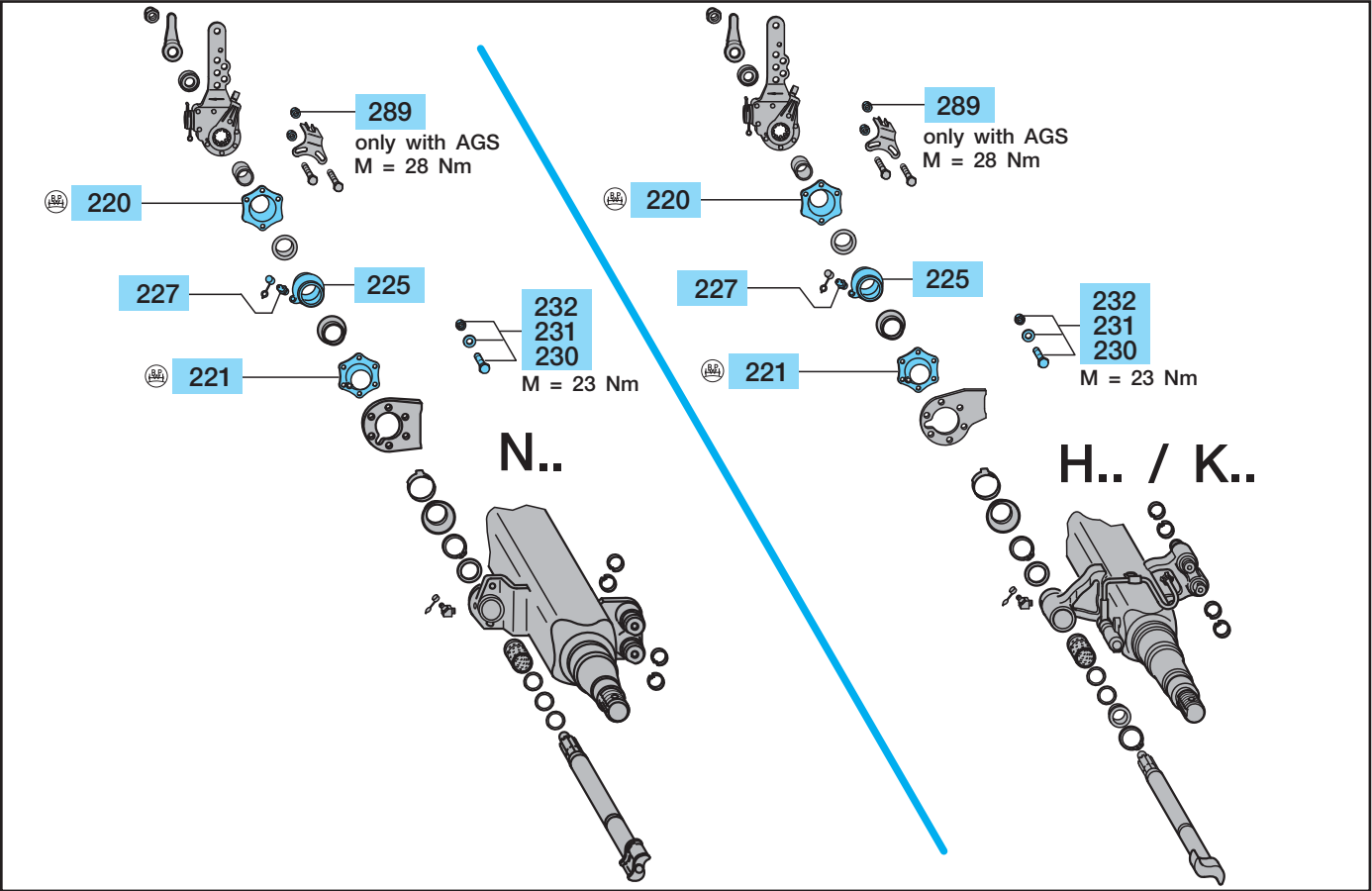
Brake shoe roller 1.4



Brake shoe roller						
		Axle type	Brake	Year of manuf.		
		H.. / R.. 8 - 9 t	SN 4216-2	1984 - 95	H.. / R..	SN 42.. 1995 -
		H.. / R.. 8 - 10 t	SN 4218-2	1984 - 95	K..	SN 36.. 1995 -
		H.. / R.. 8 - 18 t	SN 4220-2	1984 - 95	N..	SN 30.. 1995 -
		H.. / R.. 12 - 18 t	SN 4222-2	1984 - 95		
		K.. 8 - 13 t	SN 3620	- 1995		
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
344	Repair kit Brake shoe roller item 345 - 348		09.801.02.10.0	for 1 axle	09.801.02.91.0	for 1 axle side
345	Roller	4	03.331.34.05.0	Ø 26 / 42 x 78	-	
345	Roller	2	-		03.331.44.02.0	Ø 28 / 45 x 33.5
346	Circlip	8	03.350.00.13.0		-	
346	Bolt	2	-		03.084.75.24.0	Ø 26 x 58.5
348	Split pin	4	02.6201.66.03	6.3 x 90 / 1234	-	
348	Ring	4	-		03.310.70.15.0	Ø 24 / 31 / 3.5

Repair kits for BPW axles with drum brake

1.5 Support bearing

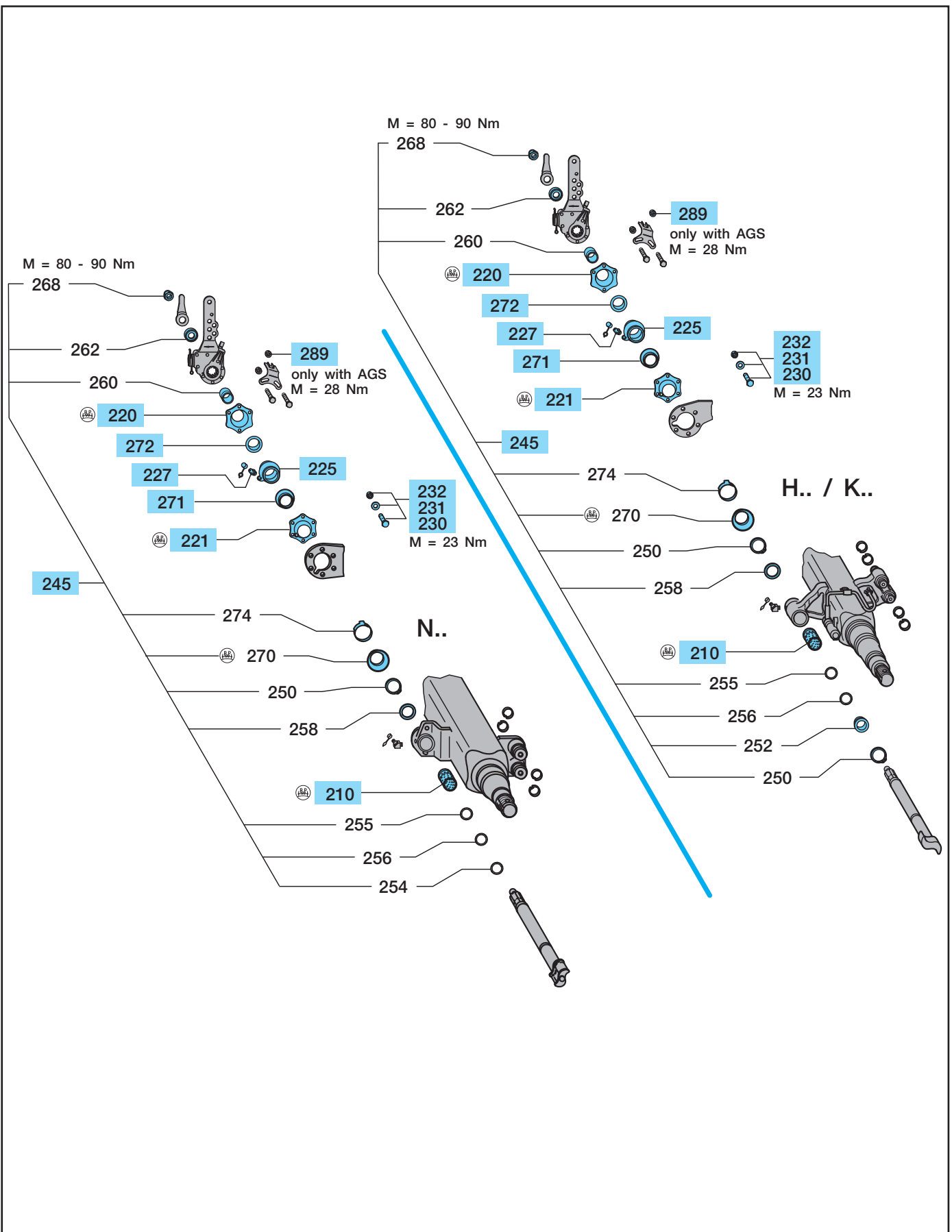


Support bearing			Axle type H / K / N	
Brake camshafts with last digit 3 / 4		Axle type	Brake	
		H.. / R.. 6 - 18 t	SN 42..	
		K.. 6 - 13 t	SN 36..	
		N.. 6 - 13 t	SN 30..	
item	Description	Quantity / Pieces	BPW Code no.	Dimension
219	Repair kit support bearing item 315, 325, 330 - 368		09.801.02.15.1	for 1 axle side
220	Bearing box (for grease nipple)	1	03.229.02.19.0	
221	Bearing box	1	03.229.02.18.0	
224	Support bearing ass. item 225 + 227	1	05.377.00.07.0	
225	Spherical bearing	1	03.113.14.04.0	Ø 42 / 60 x 38
227	Grease nipple	1	02.6850.17.00	BM 8 x 1 / 71412
230	Hexagon bolt	4	02.5025.30.82	M 8 x 25
231	Lock washer	4	02.5403.08.92	B 8 / 137
232	Hexagon nut	4	02.5202.12.82	M 8 / 934
289	Lock nut	2	02.5273.32.82 *	M 8
* Mount lock nuts with AGS.				



Notes

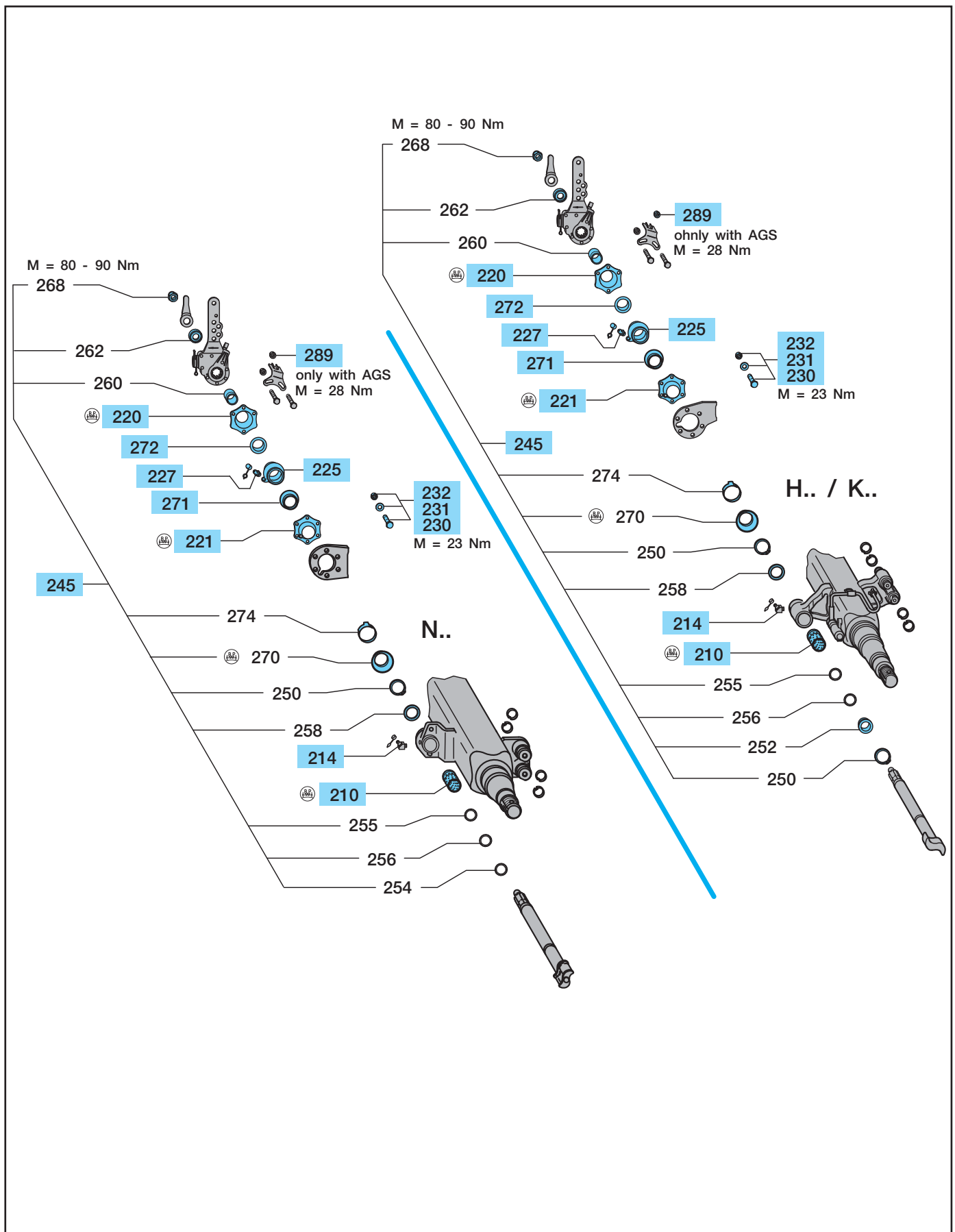
1.6 Brake camshaft bearings - rigid axles



Brake camshaft bearings - rigid axles 1.6

Brake camshaft bearings - rigid axles					
Brake camshafts with last digit 3 / 4			Axle type	Brake	Year of manuf.
			H.. / R.. 6 - 18 t	SN 42..	all
			K.. 6 - 13 t	SN 36..	all
			N.. 6 - 13 t	SN 30..	all
item	Description	Quantity / Pieces	Dimension / Remark	BPW Code no.	
208	Repair kit brake camshaft bearing item 210 - 245, 271, 272, 289		for 1 axle side	09.801.02.13.1	
210	Bush	1	Ø 42 / 46 x 73	03.112.44.34.0	-
220	Bearing box (for grease nipple)	1		03.229.02.19.0	-
221	Bearing box	1		03.229.02.18.0	-
224	Support bearing item 225 + 227	1		05.377.00.07.0	-
225	Spherical bearing	1	Ø 42 / 60 x 38	03.113.14.04.0	-
227	Grease nipple	1	BM 8 x 1 / 71412	02.6850.17.00	-
230	Hexagon bolt	4	M 8 x 25	02.5025.30.82	-
231	Lock washer	4	B 8 / 137	02.5403.08.92	-
232	Hexagon nut	4	M 8	02.5202.12.82	-
245	Repair kit brake camshaft bearing item 250 - 270, 274	1	for 1 axle side	09.801.00.43.1	09.801.00.43.1
250	Circlip	2	A 42 x 2.5	-	02.5676.01.00
252	Ring	1	Ø 42 / 56 x 2	-	03.310.12.24.0
254	Ring	1	Ø 42 / 46 x 4 (for N..)	-	03.310.81.02.0
255	'O'-Ring	1	Ø 37 x 2.6 (black)	-	02.5677.37.42
256	'O'-Ring	1	Ø 40 x 2.5 (green)	-	02.5679.23.00
258	Seal	1	Ø 42 / 46 / 55 x 7	-	03.120.42.02.0
260	Bush	1	Ø 37.4 / 45 x 21.3	-	03.113.03.06.0
262	Washer	1	Ø 22.5 / 42 X 10.5	-	03.320.11.16.1
268	Lock nut	1	M 22 x 1.5 - 10	-	03.260.14.08.0
270	Seal	1	Ø 41 / 47 x 25	-	03.120.43.14.0
271	Seal	1	Ø 42 x 15	03.120.42.09.0	-
272	Seal	1	Ø 42 x 13.5	03.120.42.08.0	-
274	Circlip	1		-	03.350.30.02.0
289	Lock nut	2	M 8	02.5273.32.82 *	-
* Mount lock nuts with AGS.					

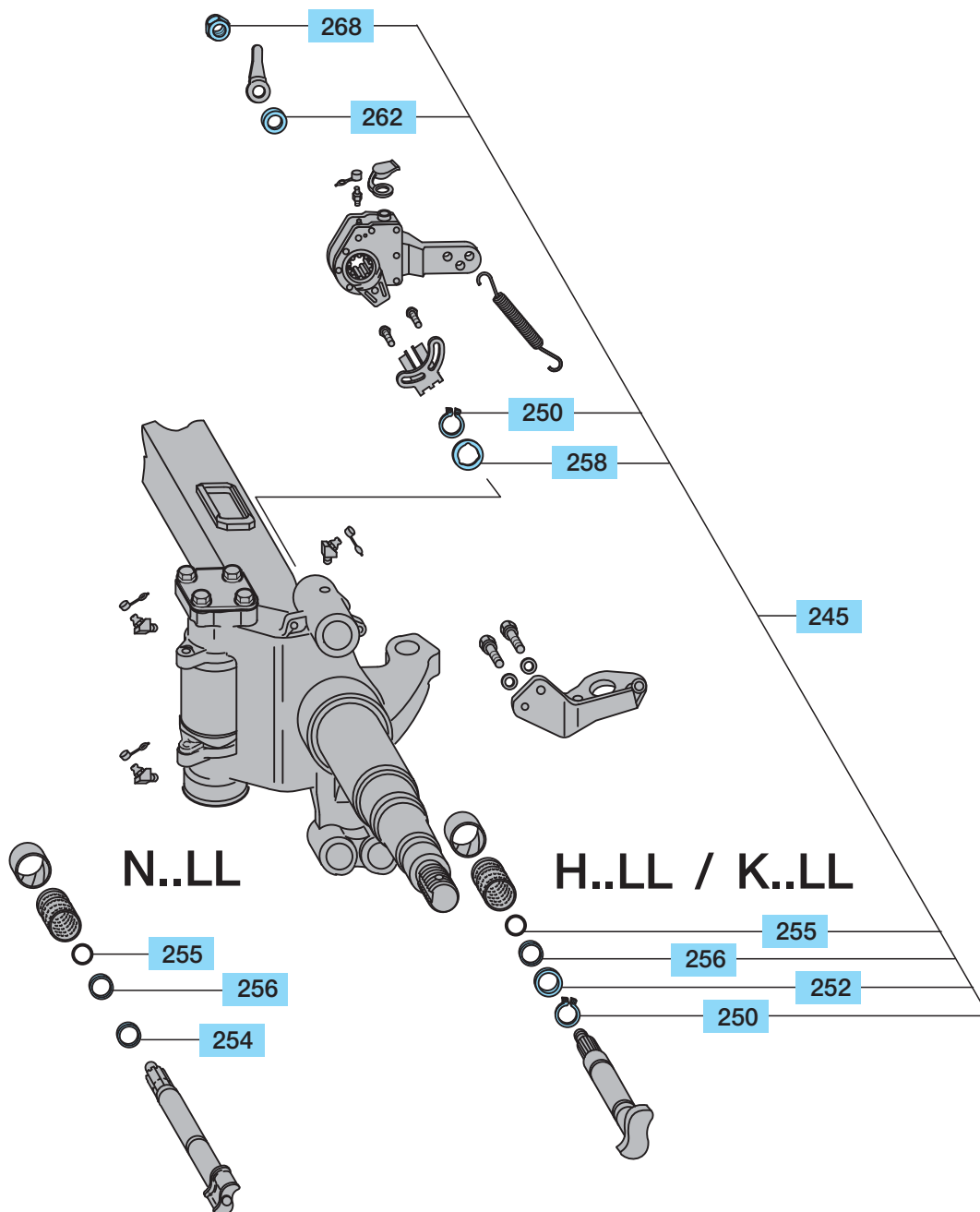
1.6 Brake camshaft bearings - rigid axles



Brake camshaft bearings - rigid axles 1.6

Brake camshaft bearings - rigid axles				
Brake camshafts with last digit 3 / 4		Axle type		
		Brake		Year of manuf.
		H.. / R.. 6 - 18 t	SN 42..	alle
		K.. 6 - 13 t	SN 36..	alle
		N.. 6 - 13 t	SN 30..	alle
item	Description	Quantity / Pieces	Dimension / Remark	BPW Code no.
208	Repair kit brake camshaft bearing item 210 - 245, 271, 272, 289		for 1 axle	09.801.06.09.1
210	Bush	2	Ø 42 / 43 x 73	03.112.44.34.0
214	Grease nipple	2	AM 10 x 1 / 71412	02.6802.03.50
220	Bearing box (for grease nipple)	2		03.229.02.19.0
221	Bearing box	2		03.229.02.18.0
224	Support bearing item 225 + 227	2		05.377.00.02.0
225	Spherical bearing	2	Ø 42 / 60 x 38	03.113.14.04.0
227	Grease nipple	2	AM 8 x 1	02.6802.14.50
230	Hexagon bolt	8	M 8 x 25	02.5025.30.82
231	Lock washer	8	B 8 / 137	02.5403.08.92
232	Hexagon nut	8	M 8	02.5202.12.82
245	Repair kit brake camshaft bearing item 250 - 270, 274	2	for 1 axle	09.801.00.43.1
250	Circlip	4	A 42 x 2.5	-
252	Ring	2	Ø 42 / 56 x 2	-
254	Ring	2	Ø 42 / 46 x 4 (for N..)	-
255	'O'-Ring	2	Ø 37 x 2.6 (black)	-
256	'O'-Ring	2	Ø 40 x 2.5 (green)	-
258	Seal	2	Ø 42 / 46 / 55 x 7	-
260	Bush	2	Ø 37.4 / 45 x 21.3	-
262	Washer	2	Ø 22.5 / 42 X 10.5	-
268	Lock nut	2	M 22 x 1.5 - 10	-
270	Seal	2	Ø 41 / 47 x 25	-
271	Seal	2	Ø 42 x 15	03.120.42.09.0
272	Seal	2	Ø 42 x 13.5	03.120.42.08.0
274	Circlip	2	Ø 49 x 9	-
289	Lock nut	4	M 8	02.5273.32.82 *
* Mount lock nuts with AGS.				

1.7 Brake camshaft bearings - steering axles series LL



Brake camshaft bearings - steering axles series LL 1.7

Brake camshaft bearings - steering axles series LL					
			Axle type	Brake	Year of manuf.
			H..LL 8 - 12 t	SN 42..	all
			K..LL 8 - 12 t	SN 36..	all
			N..LL 8 - 12 t	SN 30..	all
item	Description	Quantity / Pieces	Dimension / Remark	BPW Code no.	
245	Repair kit brake camshaft bearing item 250 - 262, 268		for 1 axle side	09.801.00.41.0	
250	Circlip	2	A 42 x 2.5	02.5676.01.00	
252	Ring	1	Ø 42 / 56 x 2	03.310.12.24.0	
254	Ring	1	Ø 42 / 46 x 4 (for N..)	03.310.81.02.0	
255	'O'-Ring	1	Ø 37 x 2.6 (black)	02.5677.37.42	
	'O'-Ring e.g.	1	Ø 34 x 4	02.5677.30.40	
256	'O'-Ring	1	Ø 40 x 2.5 (green)	02.5679.23.00	
258	Seal	1	Ø 42 / 46 / 55 x 7	03.120.42.02.0	
262	Washer	1	Ø 22.5 / 42 X 10.5	03.320.11.16.1	
268	Lock nut	1	M 22 x 1.5 - 10	03.260.14.08.0	

Repair kits for BPW axles with drum brake

1.8 Slack adjuster kits (AGS)

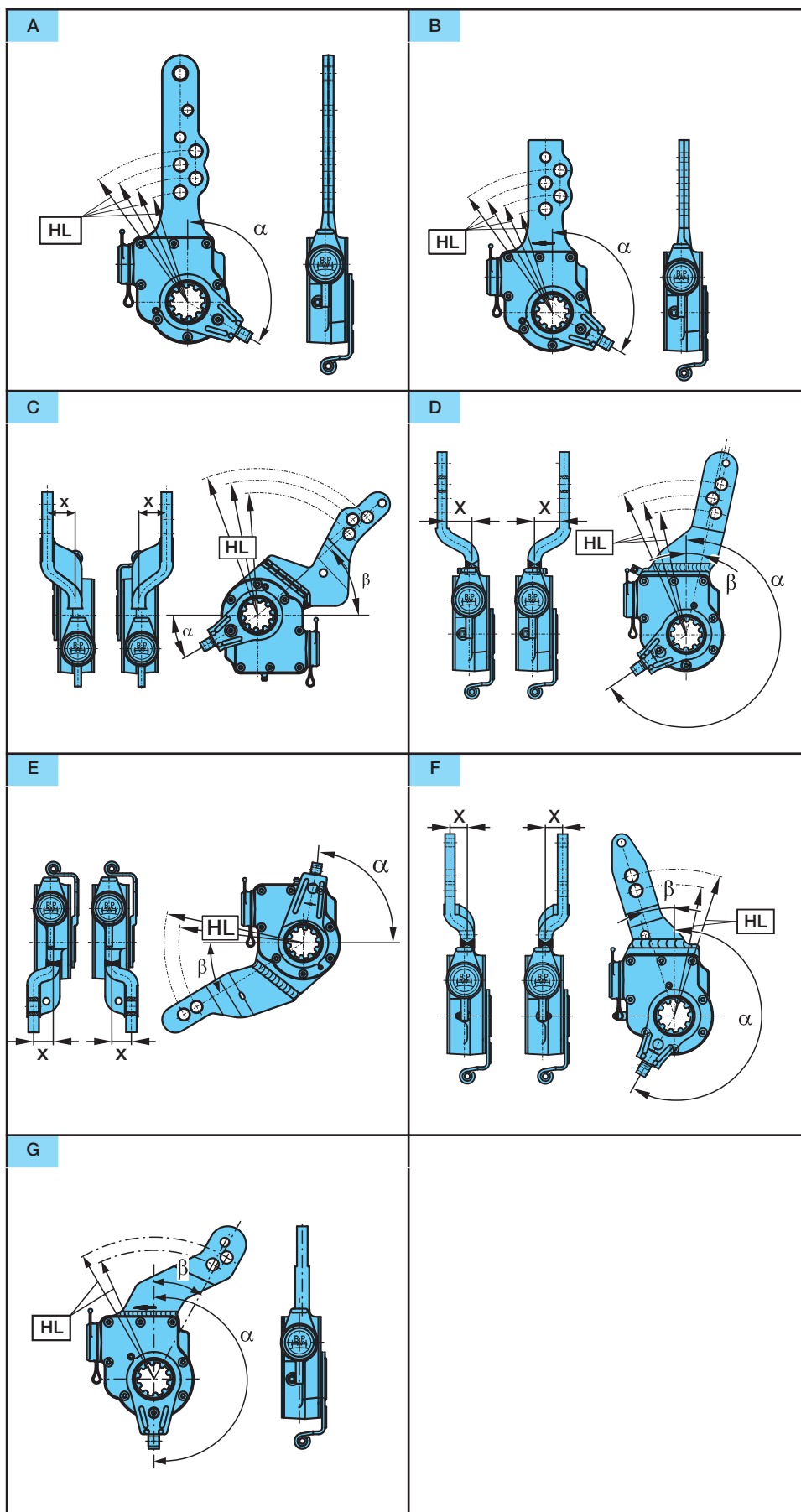
BPW Code no.		Possible cylinder connection		Dimension			
Slack adjuster	Slack adjuster kit	Qty. holes	Lever lengths (HL Ø 14)	Fig.	α	β	Crank value X
05.174.82.21.3	05.574.82.43.3	6	120 / 135 / 150 / 165 (180=Ø11/250=Ø14)	A	120°	-	-
05.174.82.22.3	05.574.82.55.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	120°	-	-
05.174.82.24.3	05.574.82.44.3	6	120 / 135 / 150 / 165 (180=Ø11/250=Ø14)	A	180°	-	-
05.174.82.31.3	05.574.82.67.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	180°	-	-
05.174.82.32.3	05.574.82.66.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	210°	-	-
05.174.82.40.3	05.574.82.45.3	7	120 / 135 / 150 / 165 (180=Ø11/244=Ø9/250=Ø14)	A	210°	-	-
05.174.82.44.3	05.574.82.46.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	60°	-	-
05.174.82.47.3	05.574.82.86.3	4	120 / 135 / 150 / 165	B	210°	-	-
05.174.82.63.3	05.574.82.87.3	6	120 / 135 / 150 / 165 (180=Ø11/250=Ø14)	A	24°	-	-
05.174.82.67.3	05.574.83.01.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	24°	-	-
05.174.82.75.3	05.574.83.08.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	60°	-	-
05.174.83.04.3	05.574.82.88.3	6	120 / 135 / 150 / 165 (180=Ø11/250=Ø14)	A	210°	-	-
05.174.83.05.3	05.574.83.07.3	6	120 / 135 / 150 / 165 (180=Ø11/250=Ø14)	A	60°	-	-
05.174.83.06.3	05.574.82.68.3	5	120 / 135 / 150 / 165 (180=Ø11)	B	60°	-	-
05.174.88.07.1 / 08.1	05.574.88.01.1	4	150 / 165 / 180 (205=Ø9.5)	C	30°	43°	44.5
05.174.88.09.1 / 10.1	05.574.88.02.1	4	150 / 165 / 180 (205=Ø9.5)	C	30°	43°	34
05.174.88.12.1 / 13.1	05.574.88.19.1	3	148 / 165 / 182	D	60°	16°	27
05.174.88.14.1 / 15.1	05.574.88.10.1	4	150 / 165 / 180 (205=Ø9.5)	C	30°	43°	26
05.174.88.16.1 / 17.1	05.574.88.06.1	2	152 / 170	E	66°	31°	16
05.174.88.21.3 / 22.3	05.574.88.34.3	3	152 / 170 (210=Ø9.5)	F	210°	17°	20
05.174.88.51.3	05.574.88.22.3	4	120 / 135 / 150 / 165 (180=Ø11)	~ B	210°	17°	-
05.174.88.68.3 / 69.3	05.574.88.23.3	3	150 / 165 / 180	~ A	60°	-	9
05.174.88.70.3 / 71.3	05.574.88.24.3	4	150 / 165 / 180 (205=Ø9.5)	C	30°	43°	34
05.174.88.74.3 / 75.3	05.574.88.25.3	4	150 / 165 / 180 (205=Ø9.5)	C	30°	43°	19
05.174.88.81.3 / 82.3	05.174.88.27.3	3	150 / 165 / 180	F	210°	27°	9
05.174.88.83.3 / 84.3	05.574.88.28.3	3	150 / 165 / 180	E	66°	31°	21
05.174.88.87.3 / 88.3	05.574.88.39.3	4	150 / 165 / 180 (205=Ø9.5)	C	30°	30°	36
05.174.88.93.3 / 94.3	05.574.88.31.3	4	149 / 165 / 181 (205=Ø9.5)	D	235°	12°	36
05.174.88.95.3 / 96.3	05.574.88.32.3	4	149 / 165 / 181 (205=Ø9.5)	D	235°	12°	21
05.174.89.05.3	05.574.88.46.3	3	150 / 165 (180=Ø11)	G	180°	29°	-
05.174.89.12.3 / 13.3	05.574.89.05.3	4	149 / 165 / 181 (205=Ø9.5)	F	180°	26°	21

Further types upon request.

The slack adjuster assembly contains not only the slack adjusters but also the necessary assembly components!

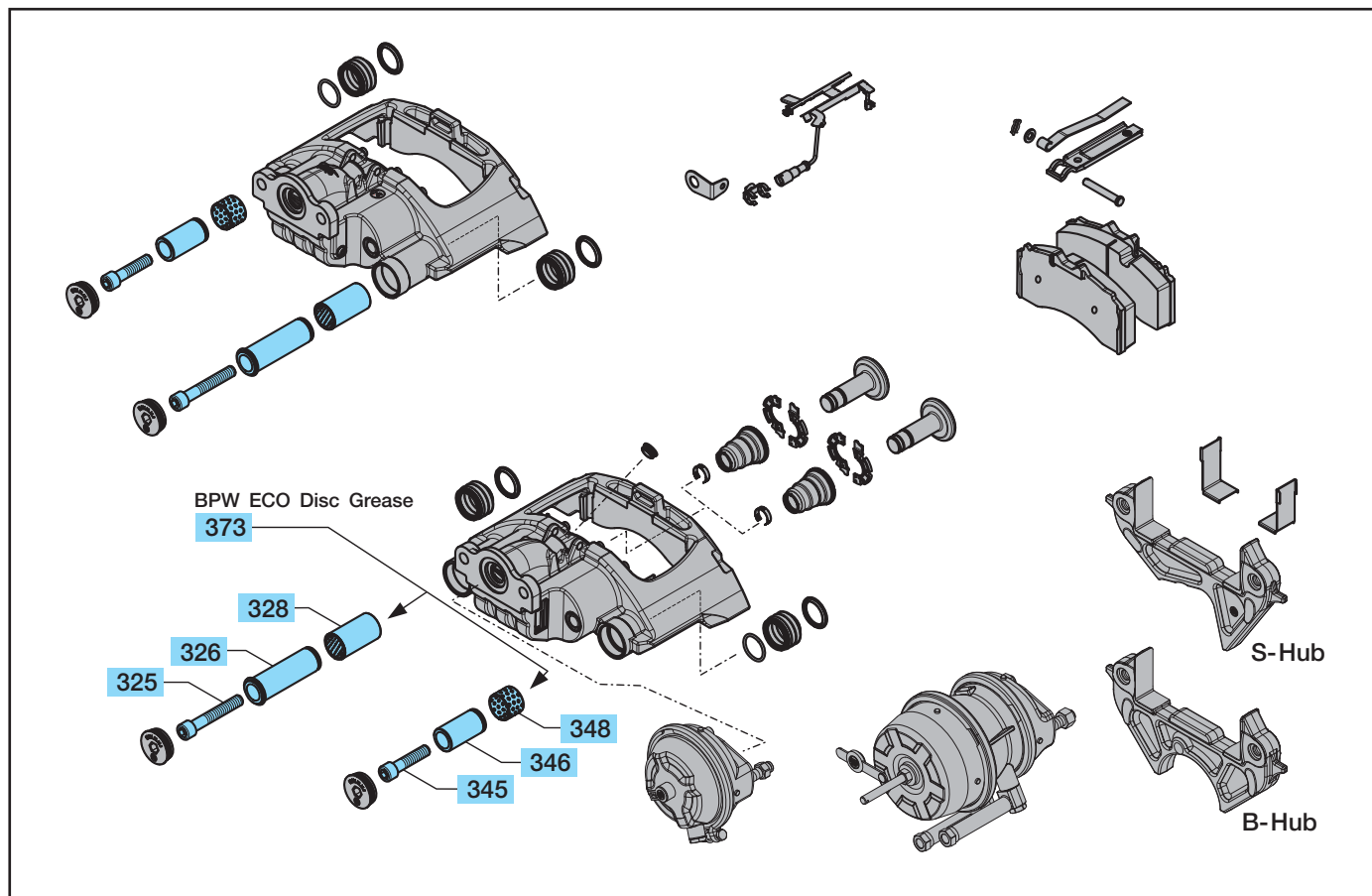
Slack adjuster kits (AGS) 1.8

for Axle type	Remark
H / K	AGS-2
H / K	AGS-2
H / K / N	AGS-2
H / K / N	AGS-2
H / K / N	AGS-2
H / K	AGS-2
Axle stub / MB	AGS-0
H..HLL	Hanging cyl. / AGS-0
H / K / N	AGS-2
H / K / N	AGS-2
H / K	AGS-2
H / K / N	AGS-2
H / K	AGS-2
H / K	AGS-2
H..LS	AGS-1
H..LS	AGS-1
N..L	AGS-1
H..LS	AGS-1
K..LS	AGS-1
K..ZL	ABS-0
H / K / N	AGS-2
H..HLL	AGS-0
H..LL	AGS-0
H..LL	AGS-0
N..LL	AGS-0
K..LL	AGS-0
NM..L	AGS-0
K..ZL	AGS-0
NM..L	AGS-0
N	AGS-2
NM..L	AGS-0



Repair kits for BPW axles with disc brake

2.1 Guide pins (BPW TSB)

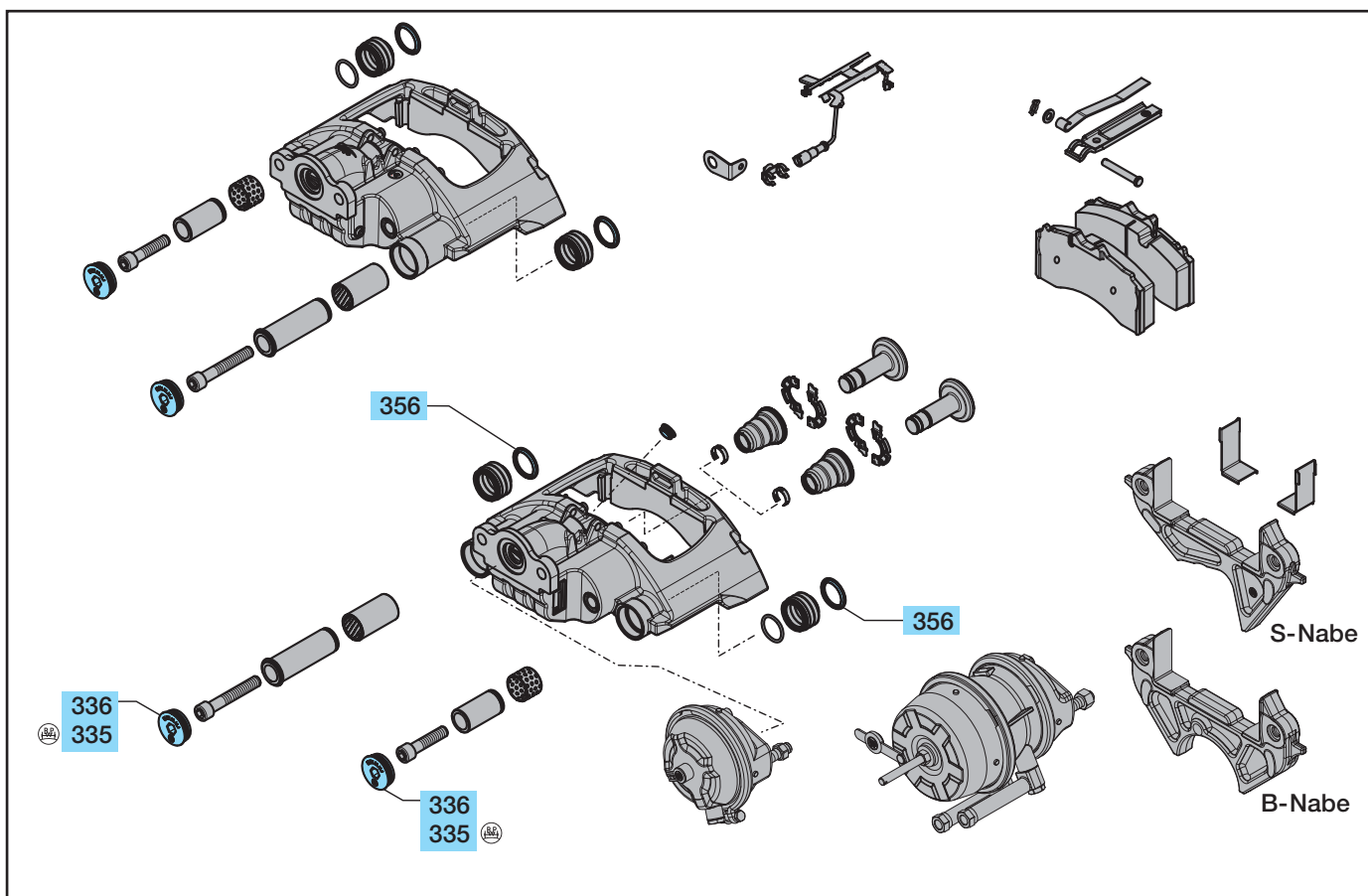


BPW ECO Disc TSB 3709 / 4309 / 4312

		TSB 3709 ---.616.---	TSB 4309 ---.617.---	TSB 4312 ---.618.---
item	Description (Remark)	Dimension / Remark	BPW Code no.	
323	Repair kit guide pins item 325, 326, 328, 345, 346, 348, 373	for 1 axle side	09.801.07.61.0	for rigid axle
325	Cylinder head bolt	M 16 x 1.5 x 100 - 10.9	02.5016.70.16	for rigid axle
		M 16 x 1.5 x 105 - 10.9	03.340.12.30.0	for steering axle ²⁾
325	Guide pin, long (Fixed bearing)	Ø 17 / 26 / 37 x 123	05.001.00.41.0	
328	Guide bush (Fixed bearing)	Ø 37 / 41 x 73	03.112.33.13.0	
345	Cylinder head bolt	M 16 x 1.5 x 70 - 10.9	02.5015.78.16	for rigid axle
		M 16 x 1.5 x 75 - 10.9	03.340.12.29.0	for steering axle ²⁾
346	Guide pin, short (Floating bearing)	Ø 17 / 26 / 36 x 70	03.001.00.35.0	
348	Guide bush (Floating bearing)	Ø 37 / 41 x 30	03.112.33.14.0	
373	BPW ECO Disc Grease	25 g	02.1040.60.00	

²⁾ order bolts separately with steering axle!

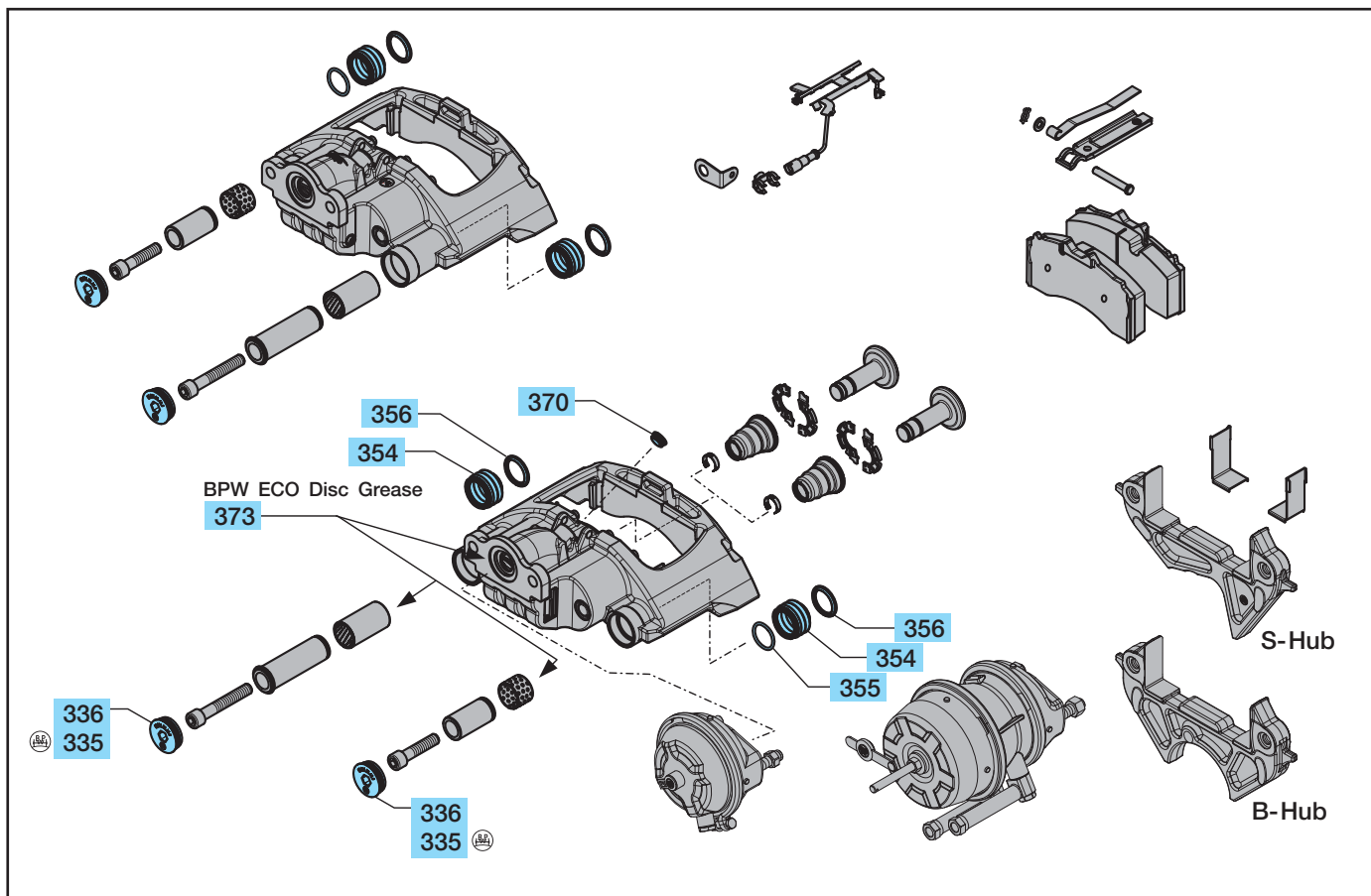
Sealing cap (BPW TSB) 2.2



BPW ECO Disc TSB 3709 / 4309 / 4312

			TSB 3709 ---,---,616,---	TSB 4309 ---,---,617,---	TSB 4312 ---,---,618,---
item	Description (Remark)	Dimension / Remark	BPW Code no.		
334	Repair kit sealing cap item 335 + 356	for 1 axle side	09.801.07.87.0		
335	Sealing cap incl. item 336	M 49 x 1.5	05.001.00.45.0		
336	'O'-Ring	Ø 45 x 2	02.5679.97.40		
356	Ring	Ø 38 / 48 x 5	03.310.11.19.0		

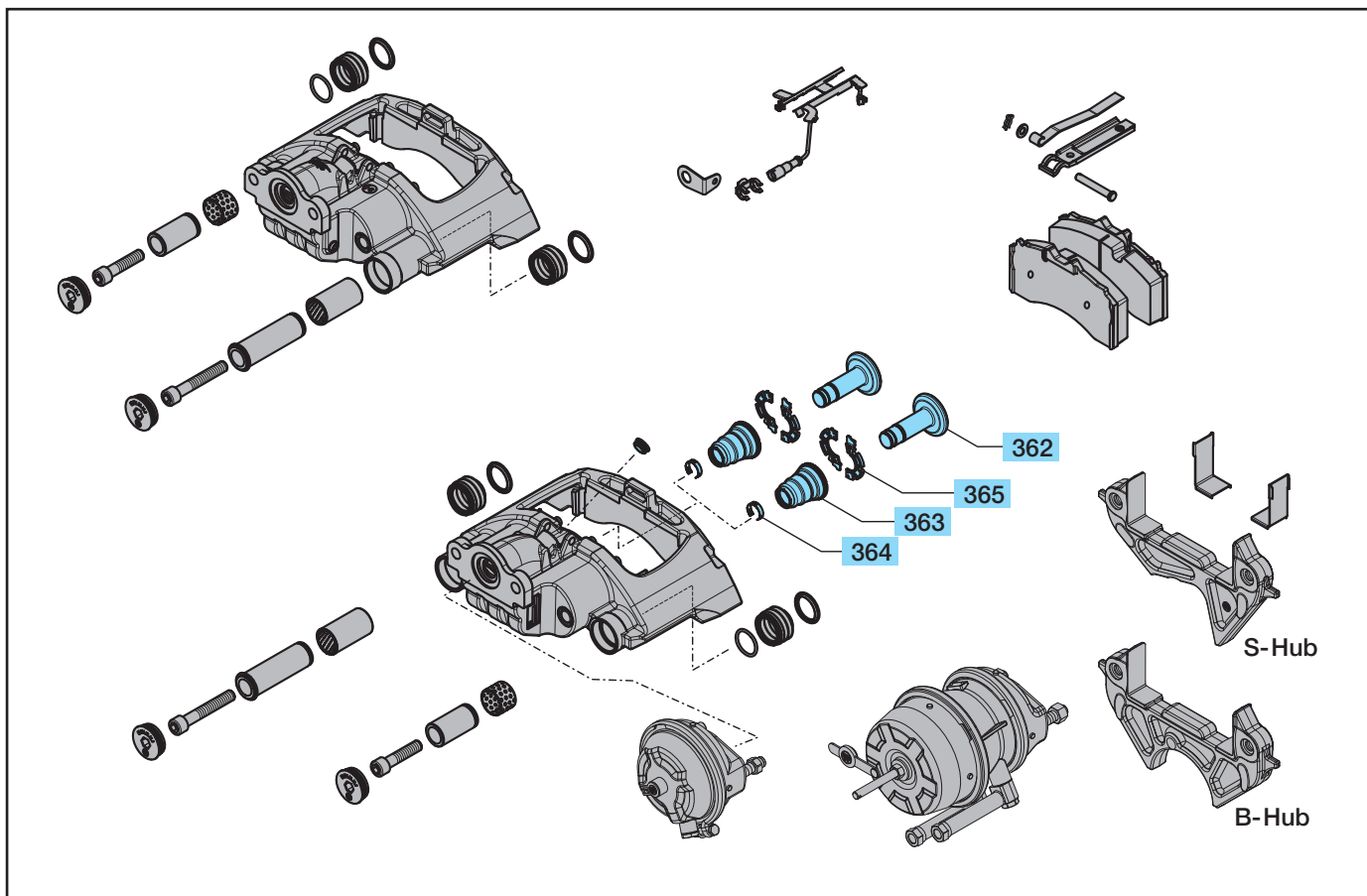
2.3 Seal for guide pins (BPW TSB)



BPW ECO Disc TSB 3709 / 4309 / 4312

		TSB 3709 ---.616.---	TSB 4309 ---.617.---	TSB 4312 ---.618.---
item	Description (Remark)	Dimension / Remark		BPW Code no.
352	Repair kit seal for guide pins item 335, 354, 355, 356, 370, 373	for 1 axle side		09.801.07.62.0
335	Sealing cap incl. item 336	M 49 x 1.5		05.001.00.45.0
336	'O'-Ring	Ø 45 x 2		02.5679.97.40
354	Bellow	Ø 52 x 34		05.130.08.27.0
355	'O'-Ring	Ø 36 x 3.5		02.5679.98.40
356	Ring	Ø 38 / 48 x 5		03.310.11.19.0
370	Plug	Ø 24 x 9		02.3704.69.00
373	BPW ECO Disc Grease	25 g		02.1040.60.00

Tappets (BPW TSB) 2.4

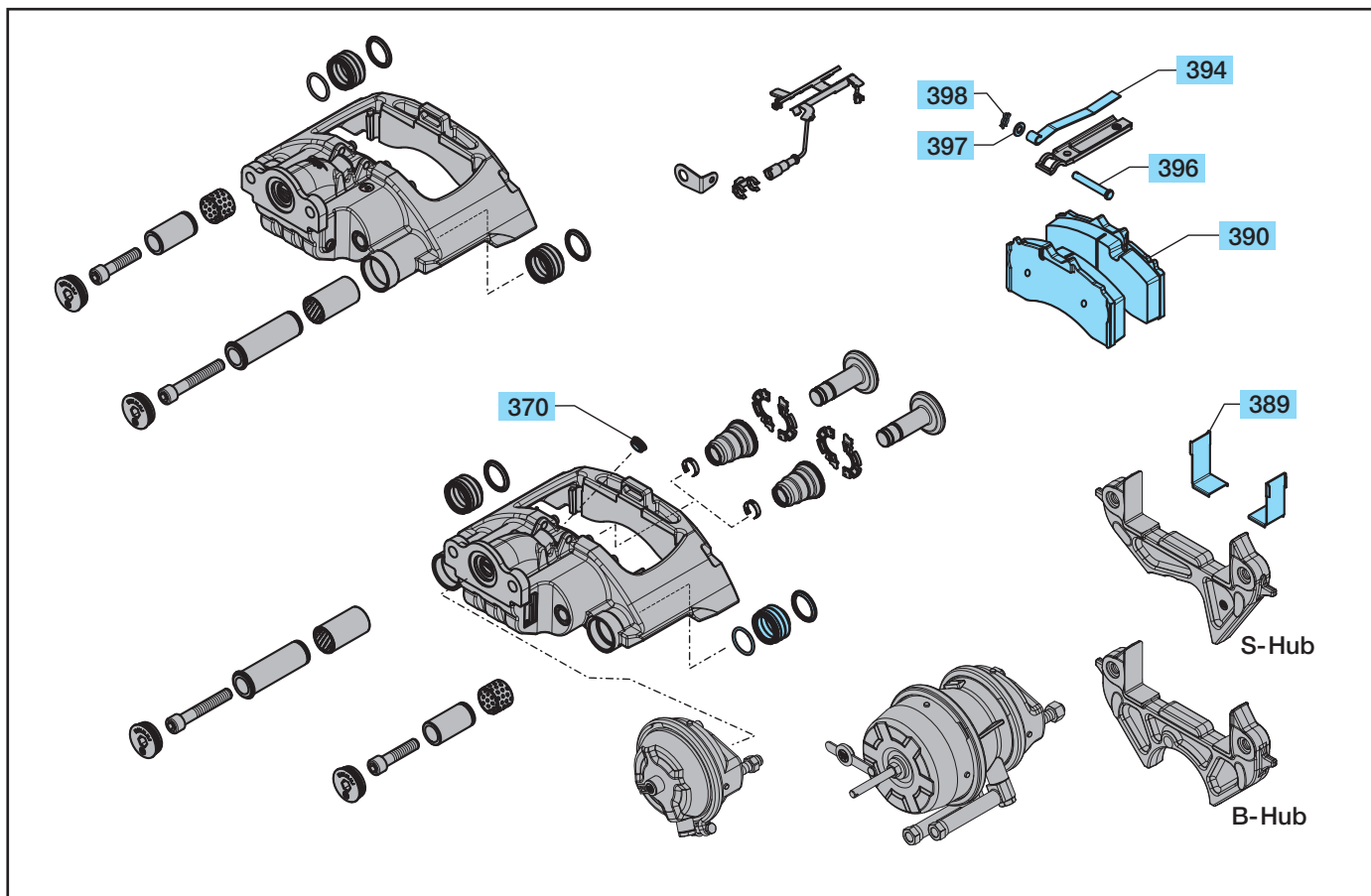


BPW ECO Disc TSB 3709 / 4309 / 4312

			TSB 3709 ---.---.616.---	TSB 4309 ---.---.617.---	TSB 4312 ---.---.618.---
item	Description (Remark)	Dimension / Remark	BPW Code no.		
360	Repair kit tappet item 362 - 365	for 1 axle side	09.801.07.63.1		
362	Tappet	Ø 24 / 27 / 84.5 x 94.5	03.127.18.03.0		
363	Bellow	Ø 26 / 55 x 17	05.130.07.07.0		
364	Holding clamp	Ø 25 x 7	03.001.57.01.0		
365	Dirt seal	Ø 55 x 1.5	03.121.30.15.0		

Repair kits for BPW axles with disc brake

2.5 Brake lining (BPW TSB)

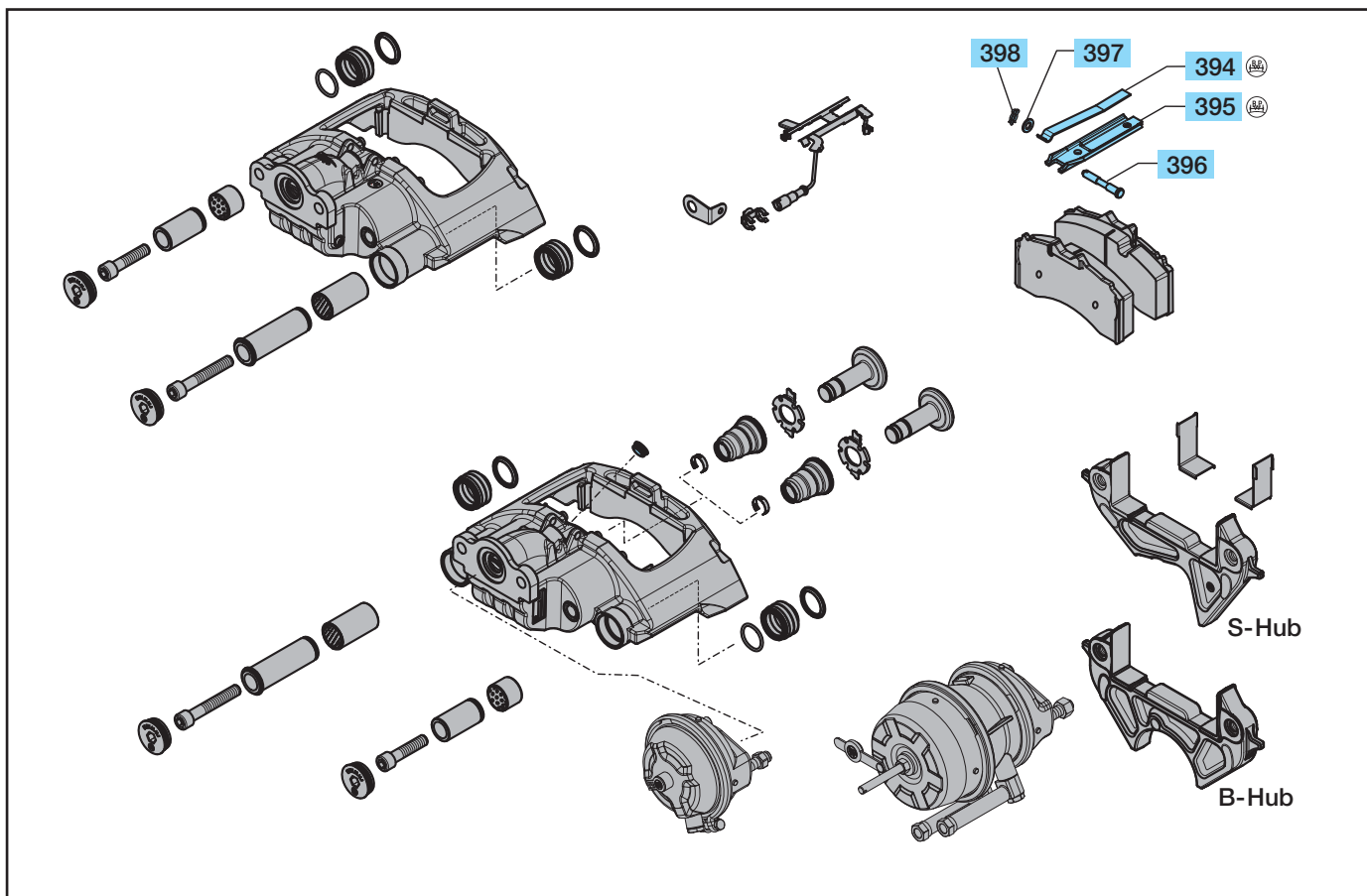


BPW ECO Disc TSB 3709 / 4309 / 4312

			TSB 3709 ---.616.---	TSB 4309 ---.617.---	TSB 4312 ---.618.---
item	Description (Remark)	Dimension / Remark	BPW Code no.		
388	Repair kit brake lining item 370, 389, 390, 394, 396 - 398	for 1 axle (BPW 8200) (BPW 8101) (BPW 8301)	09.801.07.94.0 09.801.07.95.1 -	09.801.07.96.0 09.801.07.97.1 -	- - 09.801.07.98.0
370	Plug		02.3704.69.00		
389	Wearing plate		03.163.04.02.1	03.163.04.03.1	03.163.04.04.1
390	Brake lining *	BPW 8200	05.092.90.12.1 *	05.092.90.13.1 *	-
		BPW 8101	05.092.90.15.1 *	05.092.90.16.1 *	-
		BPW 8301	-	-	05.092.90.20.1 *
394	Clamping spring		03.352.00.08.0		
396	Bolt	Ø 8 / 10 / 14 x 75	03.084.32.33.0		
397	Washer	Ø 10.5 galv.	02.5404.10.04		
398	Lock		02.3301.31.00		

* not loose available - see repair kit brake lining (item 388)

Retaining clip (BPW TSB) 2.6

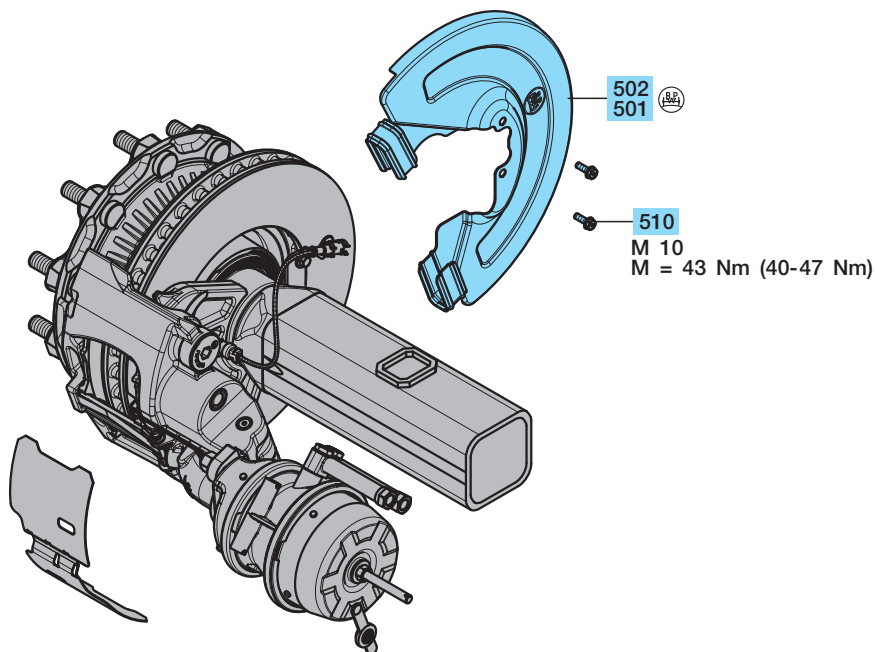


BPW ECO Disc TSB 3709 / 4309 / 4312

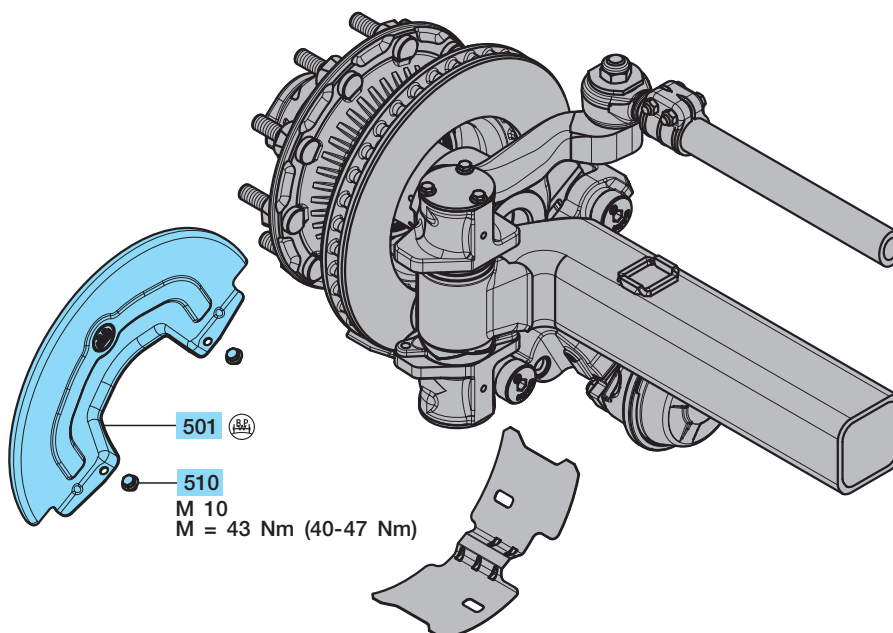
			TSB 3709 ---.---.616.---	TSB 4309 ---.---.617.---	TSB 4312 ---.---.618.---
item	Description (Remark)	Dimension / Remark	BPW Code no.		
393	Repair kit retaining clip item 394 - 398	for 1 axle	09.801.07.68.1		
394	Clamping spring		03.352.00.08.1		
395	Pad holding bar		03.001.00.54.0		
396	Bolt	Ø 8 / 10 / 14 x 75	03.084.32.33.0		
397	Washer	Ø 10.5 galv.	02.5404.10.04		
398	Lock		02.3301.31.00		

2.7 Brake disc covers (BPW ECO Disc TSB)

Rigid BPW axle with BPW ECO Disc TSB 3709 / 4309 / 4312



BPW Steering axle with BPW ECO Disc TSB 3709 / 4309



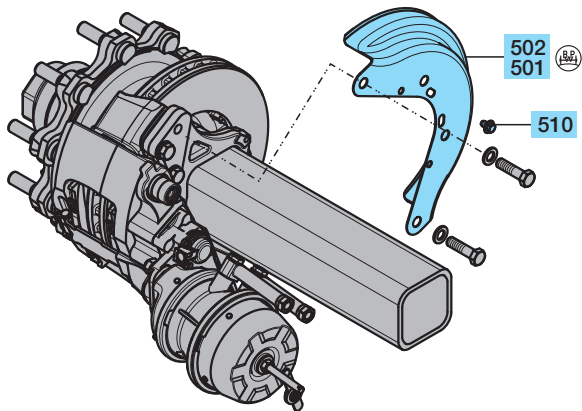
Brake disc covers (BPW ECO Disc TSB) 2.7

Brake disc covers					
item	Description (Remark)	Dimension / Remark	BPW Code no.		
BPW ECO Disc TSB			TSB 3709 □ 120	TSB 4309 □ 120	TSB 4312 □ 150
Rigid BPW axle with BPW ECO Disc TSB 3709 / 4309 / 4312					
500	Supplementary installation kit cover plates item 501 - 510	for 1 axle	09.801.07.51.0	09.801.07.52.0	09.801.07.53.0
501	Disc cover		03.010.71.59.0	03.010.71.61.0	03.010.71.57.0
502	Disc cover		03.010.71.60.0	03.010.71.62.0	03.010.71.58.0
510	Locking screw	M 10 x 15	02.5071.22.00	02.5071.22.00	02.5071.22.00
513	Seal	Ø 7 / 10 / 13	-	02.5681.78.00	-
BPW Steering axles with BPW ECO Disc TSB 3709 / 4309					
500	Supplementary installation kit cover plates item 501 - 510	for 1 axle	05.801.50.48.0	05.801.50.47.0	-
501	Disc cover		03.010.71.64.0	03.010.71.63.0	-
510	Locking screw	M 10 x 15	02.5071.22.00	02.5071.22.00	-

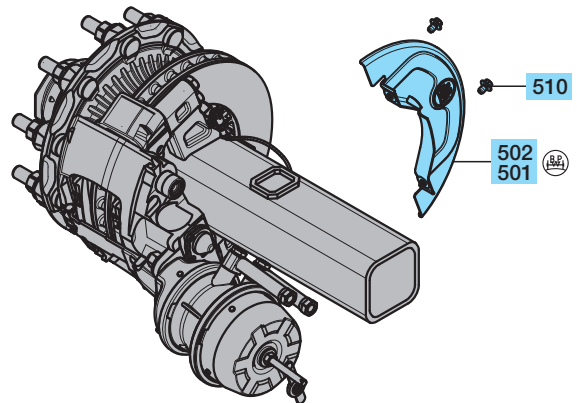
2.8 Brake disc covers (KNORR-Disc brakes)

Rigid BPW axles with KNORR-Disc brakes

Axial

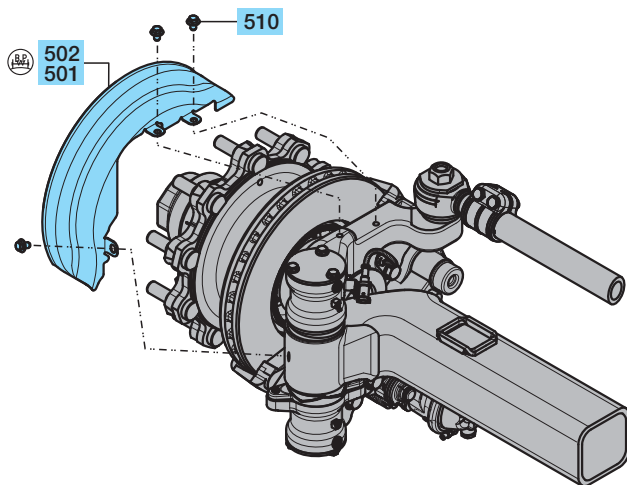


Tangential

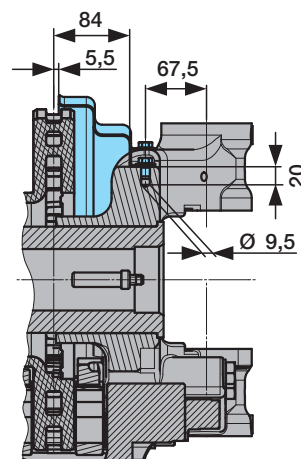
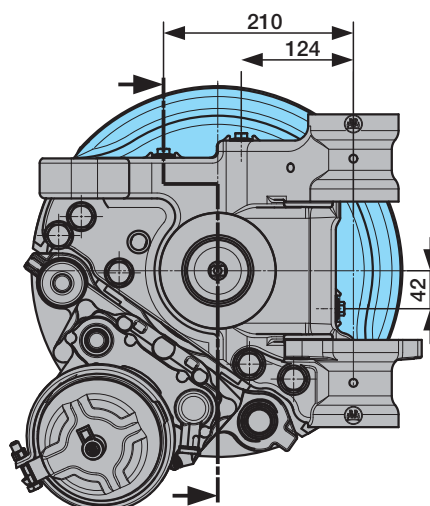
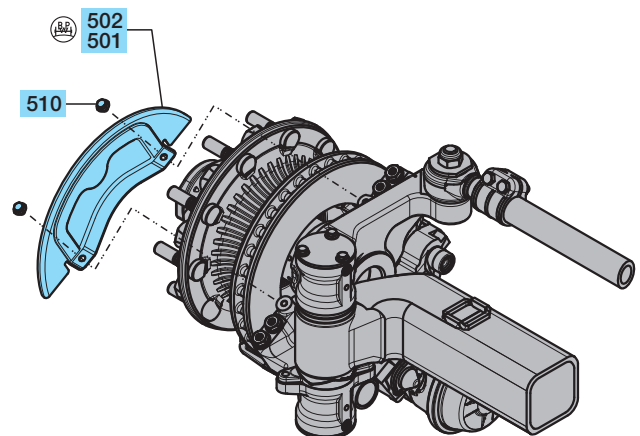


Steering BPW axles with KNORR-Disc brakes

Axial



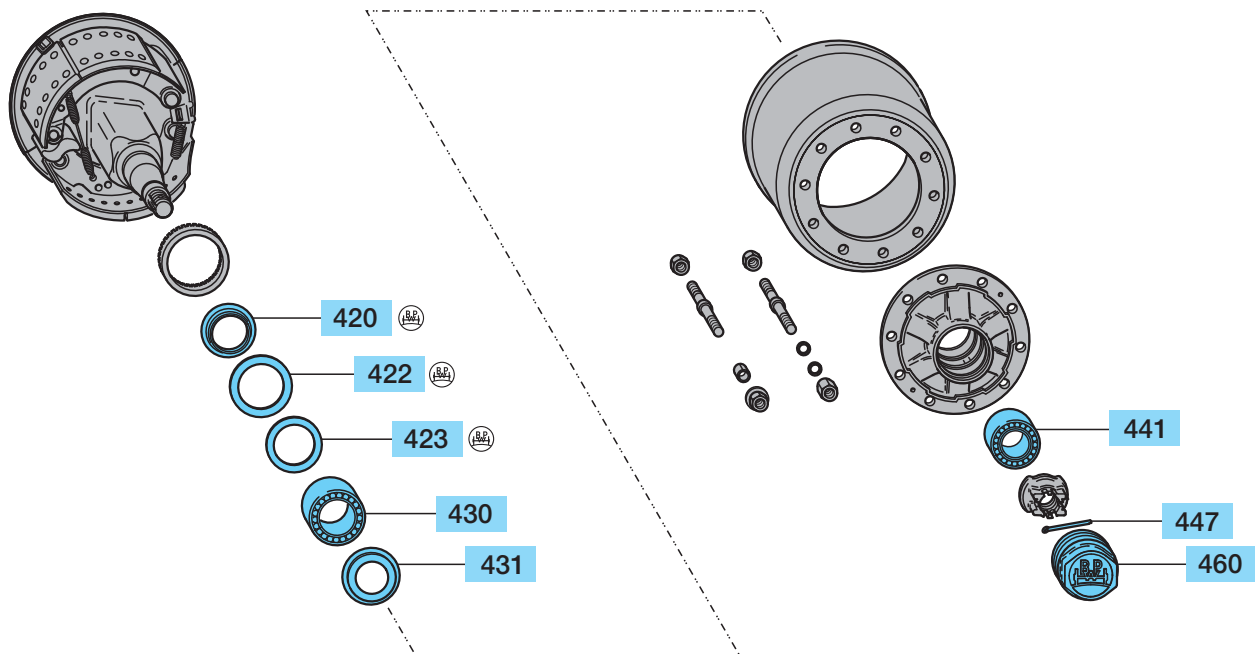
Tangential



Brake disc covers (KNORR-Disc brakes) 2.8

KNORR-Disc brake						SB 3745		SB 4309		SB 4345			
						Brake connection							
						Axial		●				●	
						Tangential			●	●			●
					BPW Code no.								
Axle type	Axle load	Offset	Axle beam	Disc covers cpl. (Retrofit kit) item 500 (item 501 - 510)	Disc covers item 501 / 502								
Rigit BPW axles													
SKHB.. SKHS.. SKHZ..	9 t 9 - 10 t 9 - 10 t	0 / 120	□ 120	09.801.06.16.0	03.010.91.53.0	●		Retrofit with offset 120 since 3/2001					
SKH..	9 t	0	□ 120	09.801.06.38.0	03.010.91.74.0		●						
SKH..	10 t	0	□ 120	09.801.06.49.0	03.010.91.79.0		●						
					03.010.91.80.0		●						
SKHB..	9 t	120	□ 120	09.801.06.39.0	03.010.91.75.0		●						
				09.801.07.30.0 *	03.010.71.05.0 *		●						
SH..	9 - 10 t	0	□ 120	09.801.06.40.0	03.010.91.76.0			●		●			
SHB..	9 t	120	□ 120	09.801.06.41.0	03.010.91.77.0			●					
				09.801.07.31.0 *	03.010.71.06.0 *			●					
SH..	9 - 10 t	0	□ 120	09.801.06.17.1	03.010.91.62.0								●
SH..	12 t	0	□ 150	09.801.06.18.1	03.010.91.63.0				●				
SH..	12 t	0	□ 150	09.801.06.42.0	03.010.91.78.0					●			
Hexagon bolts M 10 x 15 (item 510)					02.5071.22.00	●	●	●	●	●			
BPW Steering axles													
SKH..LL SKM..LL	9 t 9 - 10 t	0	□ 120	09.801.06.19.0	03.010.91.58.0 L 03.010.91.59.0 R	●		Threaded holes necessa- ry in the steering housing (see drawing)					
SKH..LL SKM..LL	9 t 9 - 10 t	0	□ 120	09.801.06.38.0	03.010.91.74.0		●						
SKHB..LL	9 t	120	□ 120	09.801.06.39.0	03.010.91.75.0		●						
				09.801.07.30.0 *	03.010.71.05.0 *		●						
S..LL	9 - 10 t	0	□ 120	09.801.06.40.0	03.010.91.76.0			●		●			
SHB..LL	9 t	120	□ 120	09.801.06.41.0	03.010.91.77.0			●					
				09.801.07.31.0 *	03.010.71.06.0 *			●					
S..LL	9 - 10 t	0	□ 120	09.801.06.40.0	03.010.91.76.0								
S..LL	9 - 10 t	0	□ 120	05.801.51.52.0	03.010.91.60.0 L				●				
					03.010.91.61.0 R			●					
SH..LL	9 - 12	0	□ 150	09.801.06.42.0	03.010.91.78.0					●			
Hexagon bolts M 10 x 15 (item 510)					02.5071.22.00	●	●	●	●	●			
* = ECO Plus 2													

3.1 Roller bearings - Conventional bearing



Roller bearings (conventional bearing)

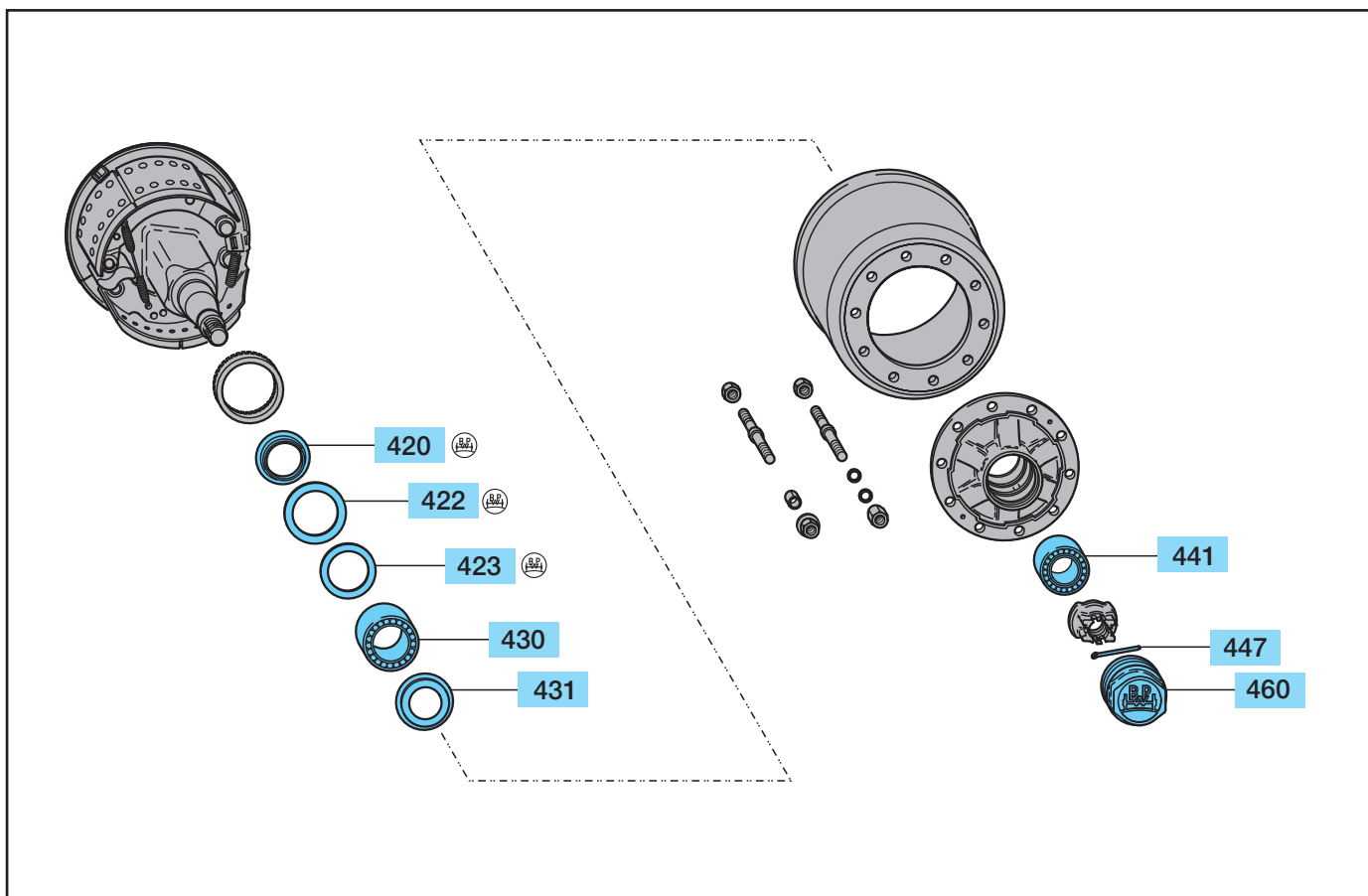
		Axle type		Brake		Year of manuf.	
		H.. / R.. 6 - 9 t	all	- 12 / 1994	H.. / R.. 10 - 12 t	all	- 12 / 1994
		K.. 6 - 9 t	all	- 12 / 1994	K.. 10 - 12 t	all	- 12 / 1994
item	Description	Quantity / Pieces	BPW Code no.	Dimension			
418	Repair kit roller bearing with thrust washer and hubcap item 420 - 460		09.801.02.17.0	for 1 axle side		09.801.02.18.0	for 1 axle side
419	Repair kit roller bearing without axle nut and hubcap item 422 - 447		09.801.02.24.0	for 1 axle side		09.801.02.98.0	for 1 axle side
420	Thrust washer	1	05.370.06.48.0	Ø 80 / 104 / 115 / 142 x 22		05.370.07.43.0	Ø 96 / 120 / 136 / 166 x 22
422	Ring (Nylon)	1	03.310.97.31.0	Ø 110 / 141 x 2.5		03.310.98.21.0	Ø 128 / 165 x 2.5
423	Ring (Nylon)	1	03.310.97.32.0	Ø 104 / 136 x 2.5		03.310.97.30.0	Ø 120 / 157 x 2.5
430	Roller bearing	1	02.6410.24.00	33116		02.6410.23.00	33118
431	Dust cover	1	03.010.04.15.0	Ø 84 / 129 x 5.5		03.010.05.22.0	Ø 94 / 149 x 5.5
441	Roller bearing	1	02.6410.25.00	32310		02.6410.22.00	33213
447	Split pin	1	02.6201.82.01	8 x 50 / 1234		02.6201.84.01	8 x 63 / 1234
460	Hubcap	1	03.212.23.09.0	M 115 x 2		03.212.24.07.0	M 125 x 2

Grease filling and bearing adjustment see page 62.

Roller bearings - Conventional bearing

3.1

H

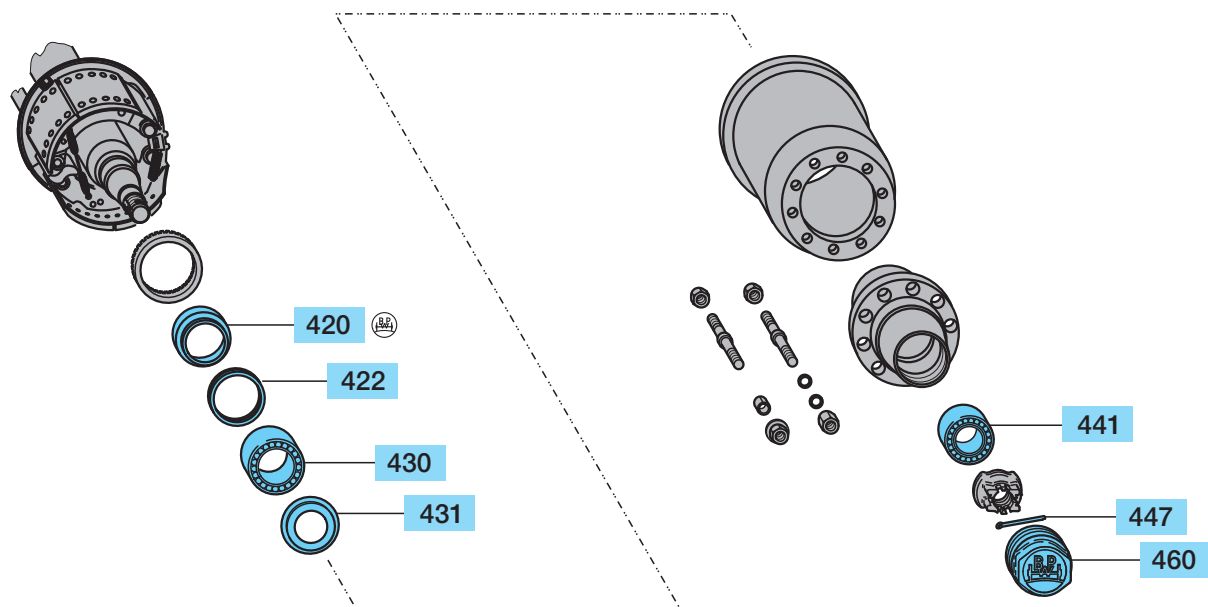


Roller bearings (conventional bearing)

			Axle type	Brake	Year of manuf.
			H.. 14 t	all	- 12 / 1994
item	Description	Quantity / Pieces	BPW Code no.	Dimension	
419	Repair kit roller bearing without hubcap item 420 - 447		09.801.07.12.0	for 1 axle side	
420	Thrust washer	1	05.370.07.20.0		
422	Ring (Nylon)	1	03.310.38.21.0	Ø 130 / 186 x 4	
423	Ring (Nylon)	1	03.310.38.20.0	Ø 124 / 181 x 4	
430	Roller bearing	1	02.6410.28.00	32219	
431	Dust cover	1	03.010.05.21.0	Ø 99 / 169 x 8.5	
441	Roller bearing	1	02.6410.29.00	33215	
447	Split pin	1	02.6202.03.01	10 x 71 / 1234	

Grease filling and bearing adjustment see page 62.

3.1 Roller bearings - Conventional bearing



Roller bearings (conventional bearing)

			Axle type	Brake	Year of manuf.			
			N.. 6 - 9 t	all	- 12 / 1994	N.. 10 - 12 t	all	- 12 / 1994
item	Description	Quantity / Pieces	BPW Code no.	Dimension				
418	Repair kit roller bearing with thrust washer and hubcap item 420 - 460		09.801.02.19.0	for 1 axle side		09.801.02.20.0	for 1 axle side	
420	Thrust washer	1	03.370.07.45.0	Ø 86 / 125 x 22		03.370.07.44.0	Ø 96 / 145 x 22	
422	Oil seal	1	02.5664.26.57	Ø 125 / 143 x 13 / 11		02.5664.46.57	Ø 145 / 167 x 13	
430	Roller bearing	1	02.6410.24.00	33116		02.6410.23.00	33118	
431	Dust cover	1	03.010.04.15.0	Ø 84 / 129 x 5.5		03.010.05.22.0	Ø 94 / 149 x 5.5	
441	Roller bearing	1	02.6410.25.00	32310		02.6410.22.00	33213	
447	Split pin	1	02.6201.82.01	8 x 50 / 1234		02.6201.84.01	8 x 63 / 1234	
460	Hubcap	1	03.212.23.09.0	M 115 x 2		03.212.24.07.0	M 125 x 2	

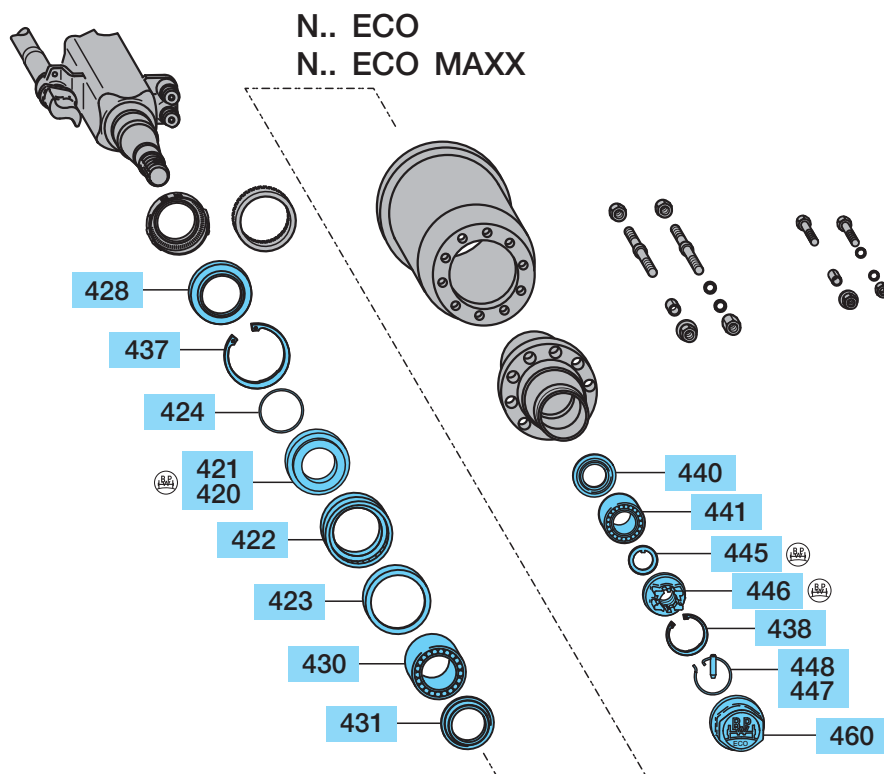
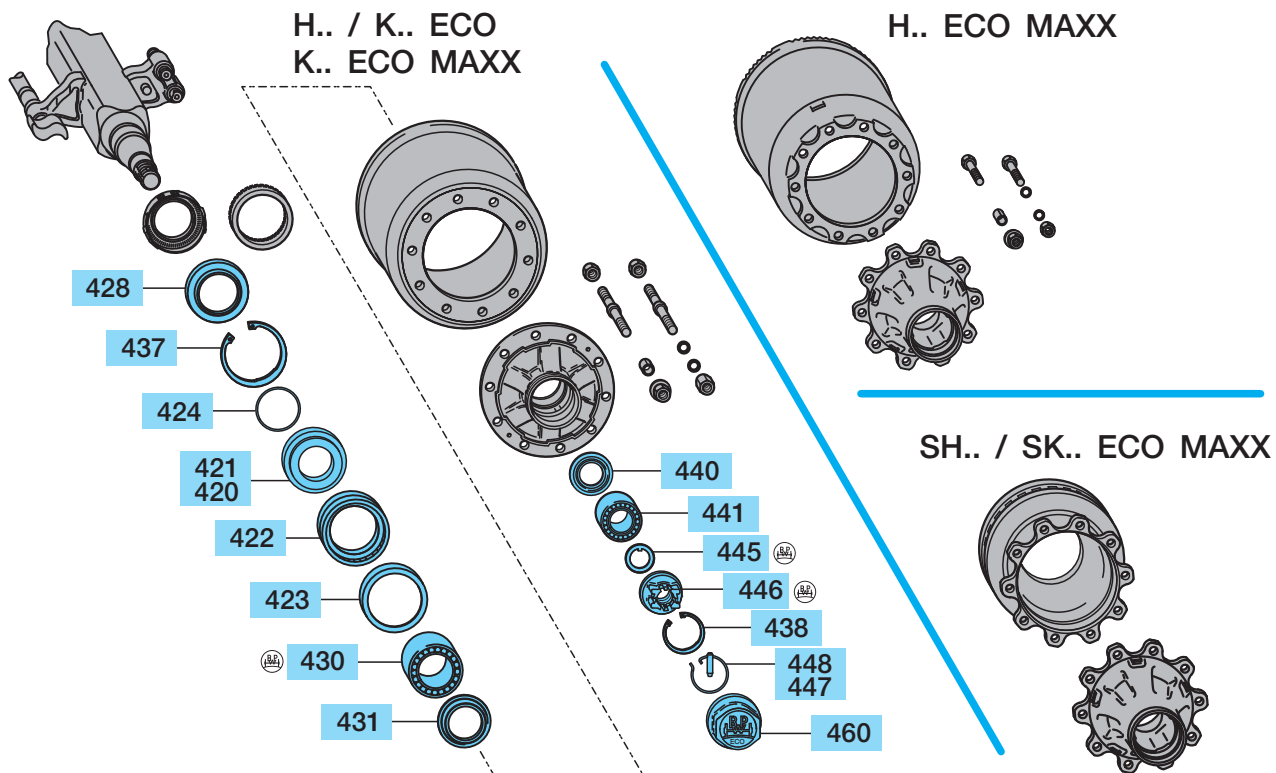
Grease filling and bearing adjustment see page 62.



Notes

3.2 Roller bearings - ECO / ECO MAXX Unit

H
SH
K
SK
N



Roller bearings - ECO / ECO MAXX Unit 3.2

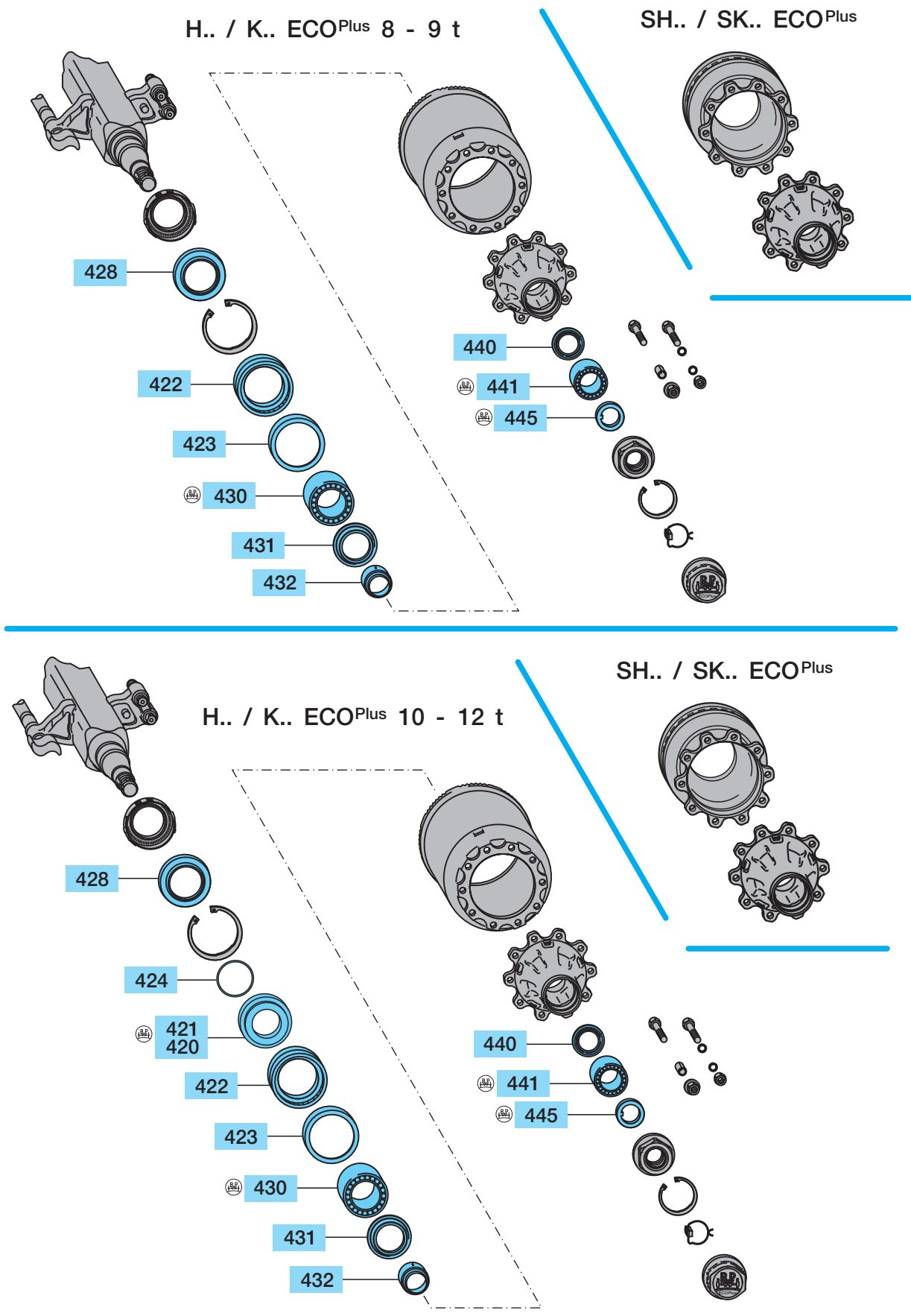
Repair kit roller bearings (ECO / ECO MAXX Unit)						
		Axle type	Brake	Year of manuf.		
		H.. / K.. / N.. SH.. / SK.. ECO / ECO MAXX 6.5 - 9 t	all	1 / 1995 -	H.. / K.. / N.. SH.. / SK.. ECO / ECO MAXX 10 - 12 t	all 1 / 1995 -
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
418	Repair kit roller bearing with axle nut and hubcap item 420, 423, 428 - 431, 437 - 460		09.801.02.33.0	for 1 axle side	09.801.02.34.0 * 09.801.07.21.0 *	M 135 x 2 M 136 x 2.5 for 1 axle side
419	Repair kit roller bearing without axle nut and hubcap item 420, 423, 430, 431, 441 - 445		09.801.02.72.0	for 1 axle side	09.801.06.89.0	for 1 axle side
420	Thrust washer cpl. (item 421, 422, 424)	1	05.370.07.67.0		05.370.07.65.0	
421	Thrust washer	1	03.370.07.60.0	Ø 86 / 115 / 139 x 22	03.370.07.62.0	Ø 96 / 135 / 159 x 22
422	Oil seal	1	02.5664.57.00	137-115-10.5	02.5664.58.00	157-136-8
423	Ring	1	02.5683.62.00	Ø 131 / 140 x 12	02.5683.63.00	Ø 151 / 160 x 12
424	'O'-Ring	1	02.5677.90.40	Ø 90 x 3	02.5678.00.00	Ø 100 x 3
428	Sealing ring	1	02.5681.98.00	Ø 103 / 147 x 15	03.120.48.13.0	Ø 133 / 168 x 15
430	Roller bearing	1	02.6410.24.00	33116	02.6410.23.00	33118
431	Dust cover	1	03.010.93.33.0	Ø 84 / 129 x 8.5	03.010.93.34.0	Ø 94 / 149 x 8.5
437	Locking ring	1	02.5606.40.90	140 x 4 / 472	02.5606.60.90	160 x 4 / 472
438	Locking ring	1	02.5606.12.90	112 x 4 / 472	02.5606.22.90	122 x 4 / 472
440	Thrust washer	1	03.370.25.16.0	Ø 54 / 98 x 9	03.370.26.24.0	Ø 71 / 108 x 9.5
441	Roller bearing	1	02.6410.25.00	32310	02.6410.22.00	33213
445	Washer	1	03.320.73.13.0	Ø 43 / 61 x 5.8	03.320.64.01.0	Ø 53 / 76 x 5.8
446	Axle nut	1	03.266.46.02.0	M 42 x 2 / SW 65 / Ø 110	03.266.47.03.0	M 52 x 2 / SW 80 / Ø 120
447	Bolt	1	03.084.71.17.0	Ø 8 x 45	03.084.71.17.0	Ø 8 x 45
448	Hooked spring ring	1	03.188.03.06.0	Ø 54 x 2	03.188.04.08.0	Ø 66 x 2
460	Hubcap	1	03.212.24.25.0	M 125 x 2 / SW 110	03.212.25.08.0 * 03.212.25.33.0 *	M 135 x 2 / M 136 x 2.5 SW 110

Grease filling and bearing adjustment see page 63.

* Modified hubcap thread from 09/00.
M 135 x 2 was changed to M 136 x 2.5.
Note thread size stamped on the hubcap!

3.3 Roller bearings - ECO^{Plus} Unit

H
SH
K
SK



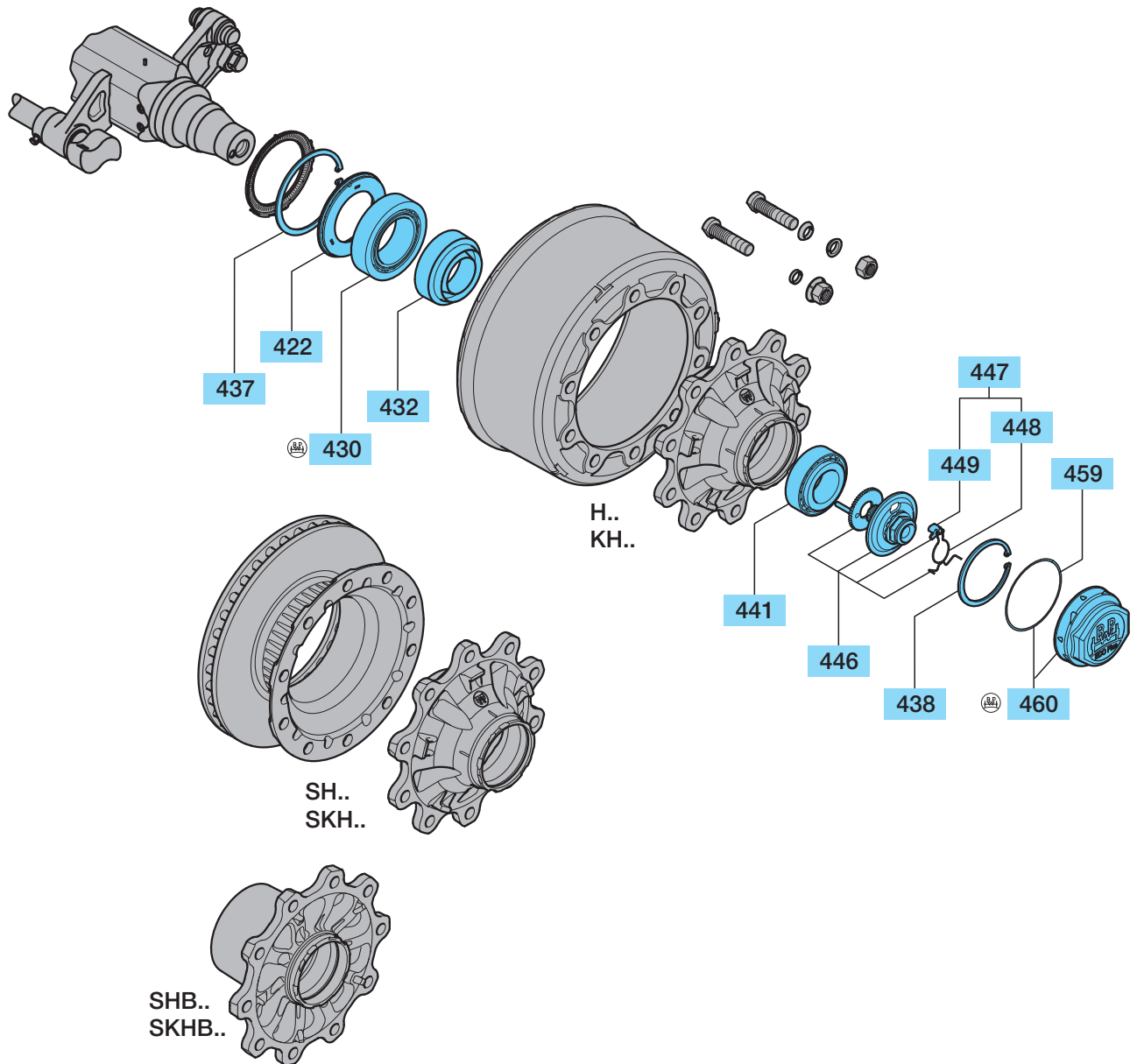
Roller bearings - ECO^{Plus} Unit 3.3

Repair kit roller bearings (ECO ^{Plus} Unit)						
		Axle type	Brake	Year of manuf.		
		H.. / K.. ECO ^{Plus} SH.. / SK.. ECO ^{Plus} ECO ^{Plus} sealing system 6.5 - 9 t	all	- 10 / 04	H.. / K.. ECO ^{Plus} SH.. / SK.. ECO ^{Plus} ECO ^{Plus} sealing system 10 - 12 t	all - 1 / 05
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
419	Repair kit roller bearing without axle nut and hubcap item 420, 423, 428, 430, 431, 432, 440 - 445		-		09.801.06.27.0	for 1 axle side
420	Thrust washer cpl. item 421, 422, 424	1	-		05.370.07.65.0	
421	Thrust washer	1	-		03.370.07.62.0	Ø 96 / 135 / 159 x 22
422	Oil seal	1	02.5664.68.00	Ø 120 / 157.5 x 20	02.5664.58.00	Ø 151 / 160 x 12.5
423	Ring	1	02.5683.80.00	Ø 151 / 157.6 x 20	02.5683.63.00	Ø 151 / 160 x 12.5
424	'O'-Ring	1	-		02.5678.00.00	Ø 100 x 3
428	Sealing ring	1	03.120.48.15.0	Ø 117.5 / 160 x 9.5	03.120.48.13.0	Ø 133 / 168 x 15
			H.. / K.. ECO ^{Plus} SH.. / SK.. ECO ^{Plus} ECO ^{Seal} sealing system 6.5 - 9 t	all 10 / 04 -	H.. / K.. ECO ^{Plus} SH.. / SK.. ECO ^{Plus} ECO ^{Seal} sealing system 10 - 12 t	all 1 / 05 -
419	Repair kit roller bearing without axle nut and hubcap item 420, 422, 428, 430, 431, 432, 440 - 445		09.801.06.26.0	for 1 axle side	09.801.07.04.0	for 1 axle side
420	Thrust washer cpl. item 421, 424	1	-		05.370.07.73.0	
421	Thrust washer	1	-		03.370.07.72.0	Ø 96 / 117.5 / 132 x 22
422	ECO ^{Seal} seal	1	02.5664.74.00	Ø 117.5 x 158 x 17.5	02.5664.74.00	Ø 117.5 x 158 x 17.5
424	'O'-Ring	1	-		02.5678.00.00	Ø 100 x 3
428	Sealing ring ¹⁾	1	03.120.48.15.0	Ø 117.5 / 160 x 9.5	03.120.48.15.0	Ø 117.5 / 160 x 9.5
430	Roller bearing	1	02.6410.24.00	33116	02.6410.23.00	33118
431	Dust cover	1	03.010.93.34.0	Ø 94 / 149 x 8.5	03.010.93.34.0	Ø 94 / 149 x 8.5
432	Seal	1	03.120.45.15.0	Ø 67 / 95 x 49.5	03.120.45.16.0	Ø 67 / 93 x 90.5
440	Thrust washer	1	03.370.26.24.0	Ø 71 / 108 x 8	03.370.26.24.0	Ø 71 / 108 x 8
441	Roller bearing	1	02.6410.22.00	33213	02.6410.22.00	33213
445	Washer	1	03.320.64.01.0	Ø 53 / 76 x 5.8	03.320.64.01.0	Ø 53 / 76 x 5.8

¹⁾ Dropped from 7 / 07 with ECO^{Seal}.

Grease filling and bearing adjustment see page 64.

3.4 Roller bearings - ECO Plus 2 Unit



Roller bearings - ECO Plus 2 Unit 3.4

Repair kit Roller bearings (ECO Plus 2 Unit)				
		Axle type	Brake	Year of manuf.
		H.. / K.. SH.. / SK.. N.. ECO Plus 2 6.5 - 9 t	all	1 / 2006 -
item	Description	Quantity / Pieces	BPW Code no.	Dimension
418	Repair kit roller bearing with axle bolt and hubcap item 422, 430, 432, 437 - 460		09.801.07.33.0	for 1 axle side
419	Repair kit roller bearing without axle bolt and hubcap item 422, 430, 432, 437, 438, 441, 459		09.801.07.34.0	for 1 axle side
422	ECO ^{Seal} seal	1	02.5664.74.00	Ø 117.5 x 158 x 17.5
430	Roller bearing	1	02.6410.24.00	33116
432	Grease cartridge	1	03.120.47.08.0	Ø 101 / 130 x 50
437	Locking ring	1	02.5606.58.90	158 x 4 / 472
438	Locking ring	1	02.5606.22.90	122 x 4 / 472
441	Roller bearing	1	02.6410.22.00	33213
446	Axle bolt with toothed washer (incl. item 447)	1	09.001.37.03.0	M 32 x 2 / SW 46
447	Locking ring cpl. (item 448 + 449)	1	05.188.03.10.0	
448	Hooked spring ring	1	03.188.03.09.0	
449	Locking piece	1	03.277.10.01.0	
459	'O'-Ring	1	02.5678.65.00	Ø 128 x 3
460	Hubcap (Bayonett) (incl. item 459)	1	05.212.25.78.0	Ø 137 / 142.6 x 56.3
Grease filling and bearing adjustment see page 65.				

4.1 Complete hubs for BPW axles with drum brake

Axle type	Axle load	Bearing	Hub execution	Qty. wheel studs	Reference diameter (TK) Ø	Wheel size (D) Ø	Brake size (D1) Ø	Hubcap thread	Hub BPW Code no.	Hub cpl. BPW Code no.
H.. SN 42..	6.5 - 9 t	ECO MAXX	S / Z	8	275	220.8	230	M 125 x 2	03.272.28.70.0	09.801.06.55.0
		ECO Plus 2	S					Bayonet	03.272.46.33.0	09.801.07.36.0
		ECO	S / Z	10	335	280.8	290	M 125 x 2	03.272.30.87.0	09.801.06.03.0
		ECO MAXX	S / Z						03.272.30.97.0	09.801.06.05.0
		ECO ^{Plus}	S / Z					M 136 x 2.5	03.272.43.10.2 *	09.801.06.07.0
		ECO Plus 2	S / Z					Bayonet	03.272.43.29.0	09.801.07.35.0
	10 - 12 t	ECO	S / Z	10	335	280.8	290	M 136 x 2.5	03.272.43.20.0	09.801.06.72.0
		ECO MAXX	S / Z						03.272.43.12.0	09.801.06.06.0
		ECO ^{Plus}	S / Z						03.272.43.23.2 *	09.801.06.08.2
		ECO	ZMA	10					03.272.48.88.0	09.801.06.15.0
		ECO MAXX	ZMA						03.272.43.15.0	09.801.06.97.0
		ECO ^{Plus}	ZMA						03.272.43.25.2 *	09.801.07.08.2
K.. SN 36..	6.5 - 9 t	ECO	S / Z	8	275	220.8	230	M 125 x 2	03.272.28.56.0	09.801.06.51.0
		ECO MAXX	S / Z						03.272.28.70.0	09.801.06.55.0
		ECO ^{Plus}	S / Z					M 136 x 2.5	03.272.46.28.2 *	09.801.06.69.0
		ECO Plus 2	S / Z						Bayonet	03.272.46.33.0
		ECO	S / Z	10	225	175.8	190	M 125 x 2	03.272.27.41.0	09.801.06.50.0
		ECO MAXX	S / Z						03.272.27.48.0	09.801.06.54.0
		ECO ^{Plus}	S / Z	10	335	280,8	290	M 136 x 2.5	03.272.43.10.2 *	09.801.06.07.0
		ECO Plus 2	S / Z						Bayonet	03.272.43.29.0
	10 - 12 t	ECO	S / Z	8	275	220.8	230	M 135 x 2	03.272.46.15.0	09.801.06.53.0
		ECO MAXX	S / Z						M 136 x 2.5	03.272.46.25.0
		ECO ^{Plus}	S / Z					03.272.46.31.2 *		09.801.06.61.2
		ECO	S / Z	10	225	175.8	190	M 135 x 2	03.272.44.34.0	09.801.06.52.0
		ECO MAXX	S / Z						M 136 x 2.5	03.272.44.40.0
		ECO ^{Plus}	S / Z					03.272.44.43.2 *		09.801.06.60.2
	N.. SN 30..	6 - 9 t	ECO MAXX	Z	8	275	220.8	230	Bayonet	03.272.28.70.0
ECO Plus 2			Z						03.272.46.33.0	09.801.07.36.0
ECO			S / Z	10	225	175.8	190	M 125 x 2	03.272.27.41.0	09.801.06.50.0
ECO MAXX			S / Z						03.272.27.48.0	09.801.06.54.0
ECO Plus 2			S / Z					Bayonet	03.272.44.46.0	09.801.08.03.0
10 - 12 t		ECO	Z	10	225	175.8	190	M 135 x 2	03.272.44.34.0	09.801.06.52.0
		ECO MAXX	Z					M 136 x 2.5	03.272.44.40.0	09.801.06.56.0

Complete hub sets are available for series **H**, **SH**, **KH** and **SKH** axles with **ECO** and **ECO^{Plus}** wheel bearings. As well as the actual wheel hub, the kit contains all the internal parts such as roller bearings, seals, the axle nut, the exciter ring and the hub cap.

The hubs are greased with the prescribed amount of ECO-LiPlus and are ready to fit.

Complete hubs are assembled under series production conditions and are therefore guaranteed to offer the usual high standard of BPW quality.

Complete hubs for BPW axles with disc brake 4.2

Axle type	Axle load	Bearing	Hub execution	Qty. wheel studs	Reference diameter (TK) Ø	Wheel size (D) Ø	Brake size (D1) Ø	Hubcap thread	Hub BPW Code no.	Hub cpl. BPW Code no.		
SH.. TSB 4309 TSB 4312	8 - 9 t	ECO ECO MAXX	S / Z	10	335	280.8	290	M 125 x 2	03.272.30.97.0	09.801.06.05.0		
			ZMA						03.272.30.98.0	-		
			Alu						M 135 x 2	03.272.30.94.0	09.801.06.74.0	
		ECO ^{Plus} ECO Plus 2	S / Z					M 125 x 2	03.272.43.10.2 *	09.801.06.07.0		
			B					M 125 x 2	03.272.43.14.2 *	09.801.06.58.0		
			S / Z					Bayonet	03.272.43.29.0	09.801.07.35.0		
	B	03.272.43.28.0	09.801.07.32.0									
	10 - 12 t	ECO MAXX	S / Z	10	335	280.8	290	M 136 x 2.5	03.272.43.11.0	09.801.06.84.0		
		ECO MAXX	ZMA						03.272.43.17.0	-		
		ECO ^{Plus}	S / Z						03.272.43.11.0	09.801.06.62.0		
			S / Z						03.272.43.22.2 *	09.801.06.62.2		
	SK.. TSB 3709	8 - 9 t	ECO ECO MAXX	S / Z	8	275	220.8	230	M 125 x 2	03.272.28.71.0	09.801.06.65.0	
Alu				03.272.28.72.0						-		
ECO ^{Plus}				S / Z						M 136 x 2.5	03.272.46.28.2 *	09.801.06.69.0
ECO Plus 2			S / Z	Bayonet					03.272.46.33.0	09.801.07.36.0		
			ECO ECO MAXX						S	M 125 x 2	03.272.30.97.0	09.801.06.05.0
									B		03.272.30.99.0	09.801.06.67.0
S / Z				03.272.32.03.0					09.801.06.64.0			
ZMA				03.272.32.06.0					-			
Alu				03.272.32.04.0					09.801.06.74.0			
ECO ^{Plus}				S / Z					M 136 x 2.5		03.272.43.10.2 *	09.801.06.07.0
B			03.272.42.14.2	09.801.06.58.0								
ECO Plus 2			S / Z	Bayonet					03.272.43.29.0	09.801.07.35.0		
		B	03.272.43.28.0		09.801.07.32.0							
		10 - 12 t	ECO MAXX	S / Z	8	275	220.8	230	M 136 x 2.5	03.272.46.24.0	09.801.06.63.0	
			ECO ^{Plus}	S / Z						03.272.46.30.2 *	09.801.06.59.2	
ECO MAXX			S / Z	10	225	175.8	190	M 136 x 2.5	03.272.46.13.0	09.801.06.66.0		
			ECO ^{Plus}						S / Z	03.272.43.24.2 *	09.801.06.22.2	
ZMA									03.272.43.18.0	09.801.06.83.0		

S / Z

B

Alu = Alloy hub

B = B-Hub (ET 120 / Wheels with offset)

S = Single wheels

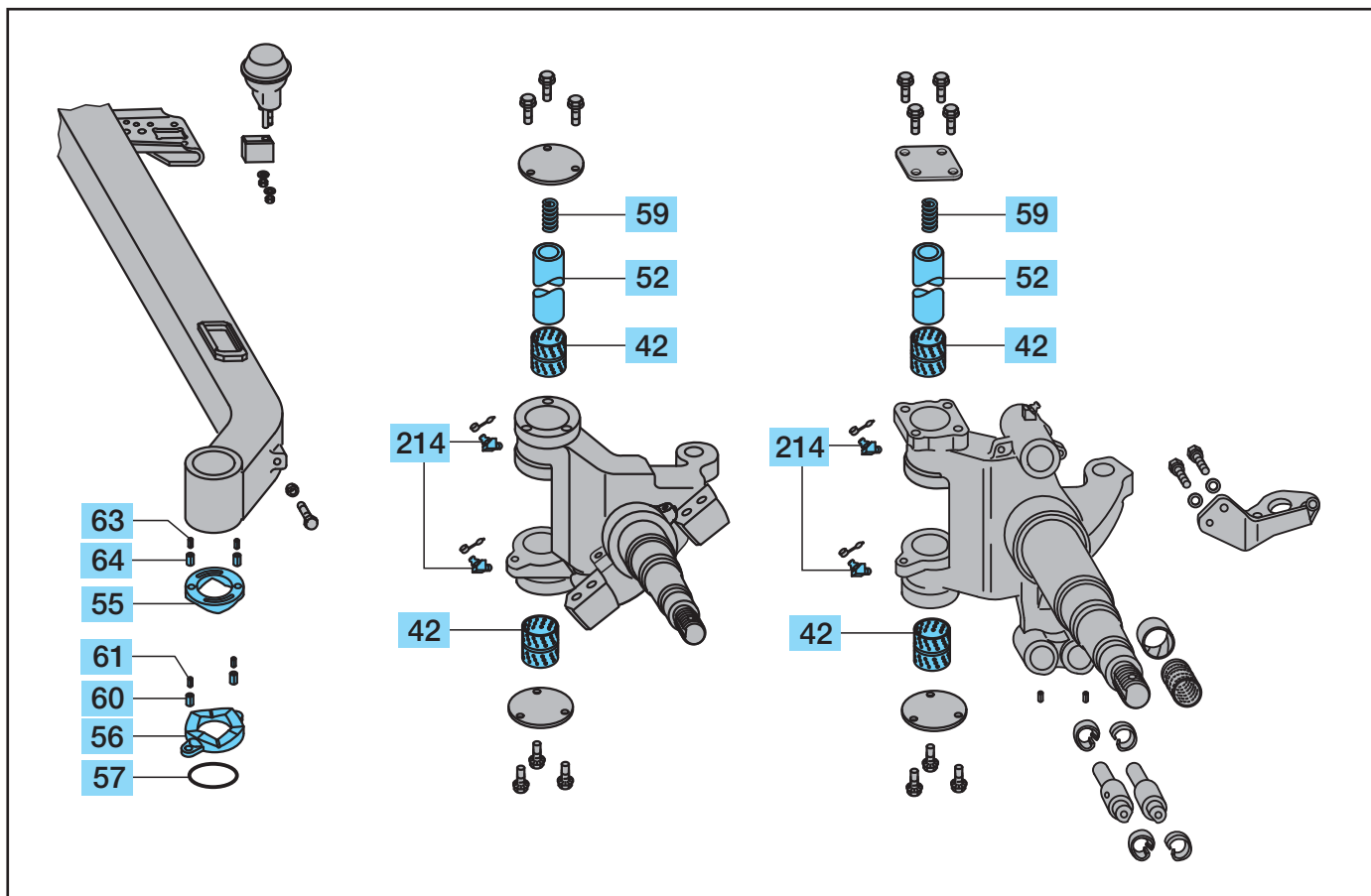
Z = Twin wheels

ZMA = Twin wheels - Spigot alignment / Alloy wheels

ZMS = Twin wheels - Spigot alignment / Steel wheels

* = ECO^{Seal}

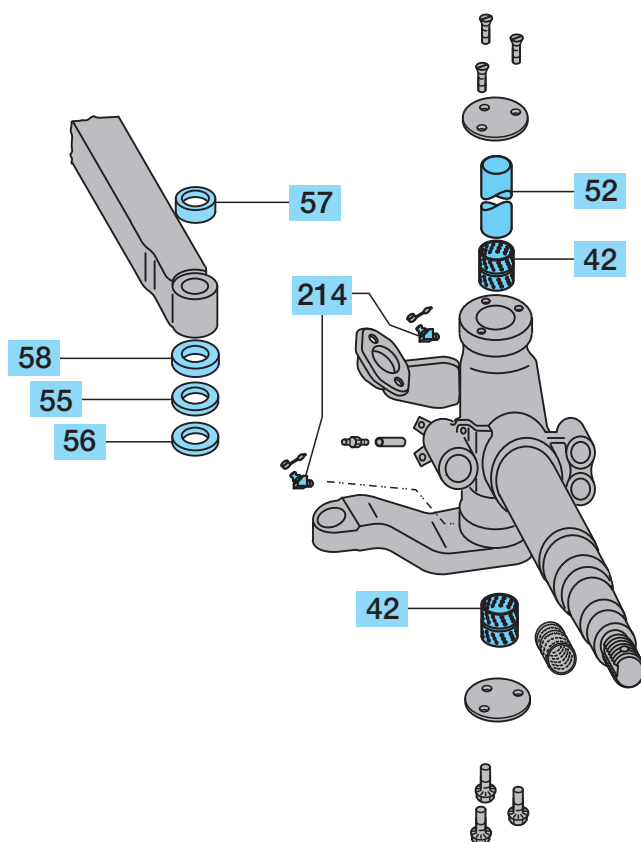
5.1 Steering bolt bearing, series ..LL



Repair kit steering bolt bearing, series ..LL

		Axle type		Brake		Year of manuf.	
		..LL to 12 t		all		1990 -	
		..LL 14 t		all		1990 -	
item	Description	Quantity / Pieces	BPW Code no.	Dimension			
45	Repair kit steering bolt bearing, item 42, 52 - 64, 214		09.801.02.35.0 09.801.07.90.0	Steering angle < 24° for 1 axle Steering angle > 25° for 1 axle			
42	Bush	4	03.112.76.08.0	Ø 60 / 65 x 90			
52	Steering bolt	2	03.240.08.04.0	Ø 39 / 60 x 331			
55	Thrust washer, < 24° upper	2	03.128.05.07.0	Ø 64 / 99 x 18.5			
56	Thrust washer, < 24° lower	2	03.128.05.06.0	Ø 64 / 99 x 18.5			
57	Seal	2	02.5681.03.00	Ø 70 / 62 / 59 x 5			
59	Pressure spring	2	03.125.07.10.1	Ø 30 / 38 x 86 / Ø 8			
60	Roll pin	4	02.6006.95.90	Ø 12 x 28			
61	Roll pin	4	02.6016.01.90	Ø 7 x 28			
63	Roll pin	4	02.6006.23.90	Ø 12 x 16			
63	Roll pin	4	02.6016.00.90	Ø 7 x 18			
64	Roll pin	4	02.6016.11.90	Ø 12 x 12			
214	Grease nipple	4	02.6802.06.50	BM 10 x 1			

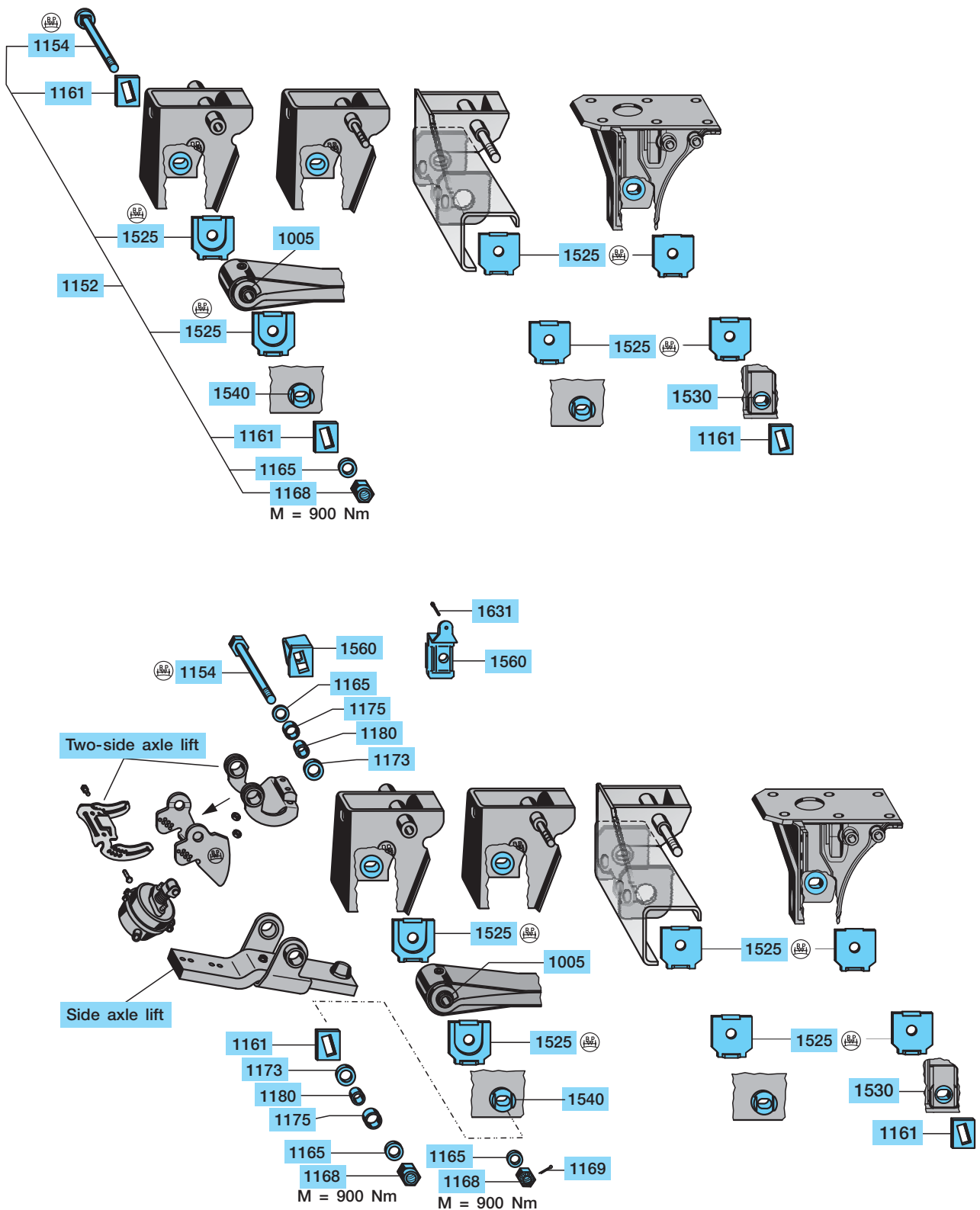
Steering bolt bearing, series ..L 5.2



Repair kit steering bolt bearing / steering bolt, series ..L

			Axle type	Brake	Year of manuf.	
			..L	all	all	all
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
45	Repair kit steering bolt bearing, item 42, 52 - 64, 214		09.801.02.36.0	for 1 axle	-	
49	Repair kit steering bolt item 52		-		09.801.02.64.0	for 1 axle side
42	Bush	4	03.112.76.08.0	Ø 60 / 65 x 90	-	
52	Steering bolt	2	03.240.08.01.0	Ø 60 x 331	03.240.08.01.0	Ø 60 x 331
55	Thrust washer, upper	2	03.128.05.04.0	Ø 61 / 90 x 7	-	
56	Thrust washer, lower	2	03.128.25.07.0	Ø 61 / 90 x 7	-	
57	Ring	2	03.310.35.37.0	Ø 63.5 / 76 x 15	-	
58	Cap	2	03.211.17.05.0	Ø 61 / 91 x 12	-	
214	Grease nipple	4	02.6802.06.50	BM 10 x 1	-	

6.1 Spring pivot bolt bearings

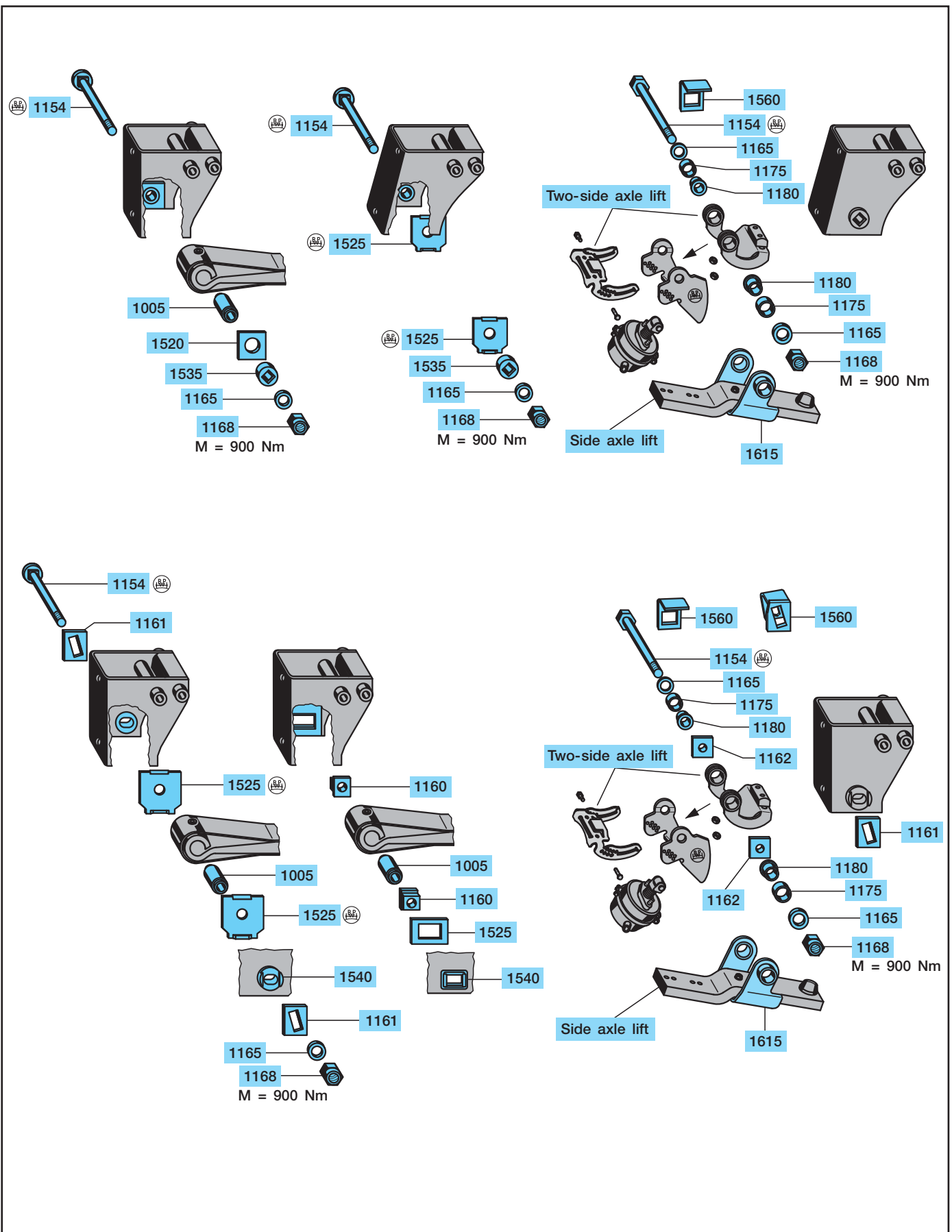


Spring pivot bolt bearing 6.1

Single spare parts see spare parts list air (EL-Luft)				Leaf spring width 70 mm							
				Thread				M 30			
				S	S	A	A	S	S	A	A
				X	V	V	V	X	V	V	V
				V			AV	V			AV
				BPW Repair kit item 1150							
item	Description	Dimension	BPW Code no.	09.801.07.38.0	09.801.07.79.0	09.801.07.81.0	09.801.07.84.0	09.801.07.19.0	09.801.07.80.0	09.801.07.82.0	09.801.07.83.0
1152	Spring pivot bolt assy. item 1154, 1161, 1165, 1168, 1525		05.857.00.28.0	●							
			05.857.00.29.0		●						
			05.857.00.30.0			●					
			05.857.00.31.0				●				
			05.857.00.18.0					●			
			05.857.00.19.0						●		
			05.857.00.20.0							●	
1005	Bush	Ø 24	02.0314.24.00	●	●	●	●				
		Ø 30	02.0315.98.00					●	●	●	●
1154	Screw (Spring pivot bolt)	M 24 x 2 x 166	03.340.14.20.0	●	●						
		M 24 x 2 x 180	03.340.14.23.0			●					
		M 24 x 2 x 260	03.340.14.25.0				●				
		M 30 x 2 x 170	03.341.05.05.0					●	●		
		M 30 x 2 x 180	03.341.05.02.0							●	
		M 30 x 2 x 265	03.340.15.40.0								●
1161	Plate (Adjusting plate)	Ø 24	03.281.44.25.0	●	●						
		Ø 24	03.281.54.20.0			●	●				
		Ø 30	03.281.54.18.0					●	●		
		Ø 30	03.281.54.19.0							●	●
1165	Washer	Ø 26 / 60 x 6	03.320.33.28.0	●	●						
		Ø 25 / 70 x 12	03.005.31.38.0			●					
		Ø 25 / 36 x 6	03.320.30.41.0				●				
		Ø 31 / 71 x 6	03.320.34.53.0					●	●	●	
		Ø 31 / 57 x 6	03.320.32.38.0								●
1168	Lock nut	M 24 x 2 / SW 36	03.260.14.13.0	●	●	●	●				
		M 30 x 2 / SW 46	03.260.15.01.0					●	●	●	
1168	Castle nut	M 30 x 2 / 935-8	02.5204.35.60								●
1169	Split pin	6.3 x 50 / 94	02.6201.62.01								●
1173	Washer	Ø 31 / 56 x 10	03.320.32.41.0								●
1175	Bush	Ø 42 / 50 / 64 x 17.5	03.113.04.11.0				●				●
1180	Graduated bush	Ø 30 / 62 / 42 x 22	03.113.01.37.0				●				●
1525	Shaped plate	Ø 24 / angled bracket	03.164.35.03.0	●							
		Ø 24 / straight bracket	03.164.35.04.0		●	●	●				
		Ø 30 / angled bracket	03.164.35.02.0					●			
		Ø 30 / straight bracket	03.164.35.01.0						●	●	●
1530	Bush	Ø 24 / 36.6 / 55/90 x 20	03.113.00.50.1			●	●				
		Ø 30 / 42.6 / 55/90 x 20	03.113.01.43.1							●	●
1540	Bush	Ø 24 / 36 / 67 x 21	03.113.03.10.0	●	●						
		Ø 30 / 42 / 74 x 23	03.113.23.01.0					●	●		

AL

6.2 Spring pivot bolt bearings



Spring pivot bolt bearing 6.2

Single spare parts see spare parts list air (EL-Luft)				Leaf spring width		100 mm																	
				Thread		M 30																	
S = Steel hanger bracket V = adjustable AV = Axle lift device				S		S		S		S AV		S AV		S V		S V		S V AV		S V AV		S V AV	

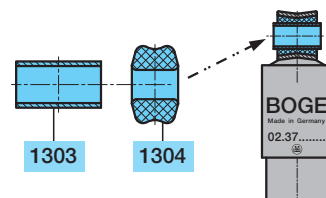
6.3 Shock absorber bushes

Repair kit shock absorber bushes

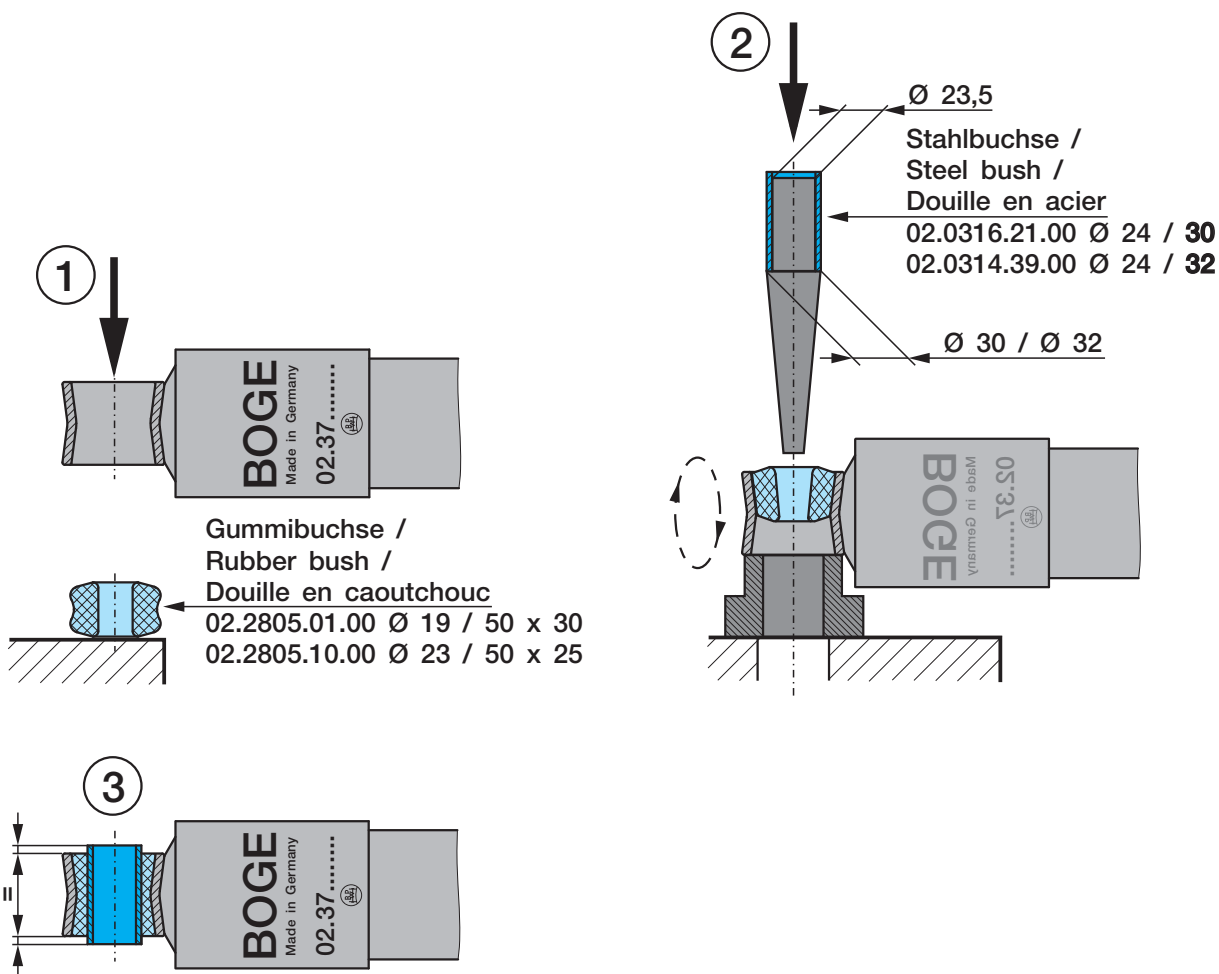
Rubber bushes only for BOGE-shock absorber

Exec.	Item	Designation	BPW Code no.	Dimensions
Shock absorber with last digit ..0	1303	Steel bush	02.0316.21.00	Ø 24 / 30 x 55
	1304	Rubber bush	02.2805.01.00	Ø 19 / 50 x 30
Shock absorber with last digit ..2	1302	Repair kit bushes item 1303 + 1304	09.801.08.18.0	
	1303	Steel bush	02.0314.39.00	Ø 24 / 32 x 55
	1304	Rubber bush	02.2805.10.00	Ø 23 / 50 x 25

Steel and rubber bushes with Ø 24 / 30 mm are no longer available - convert to steel and rubberbushes with Ø 24 / 32 mm.



Changing the bushes



Lubricate the rubber and steel bush with a 50% soap solution prior to assembly!

Spring plates 6.4

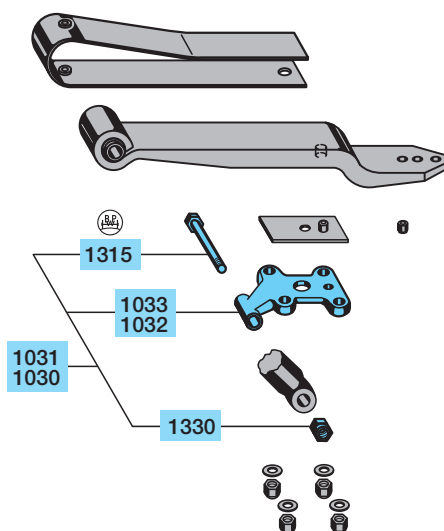


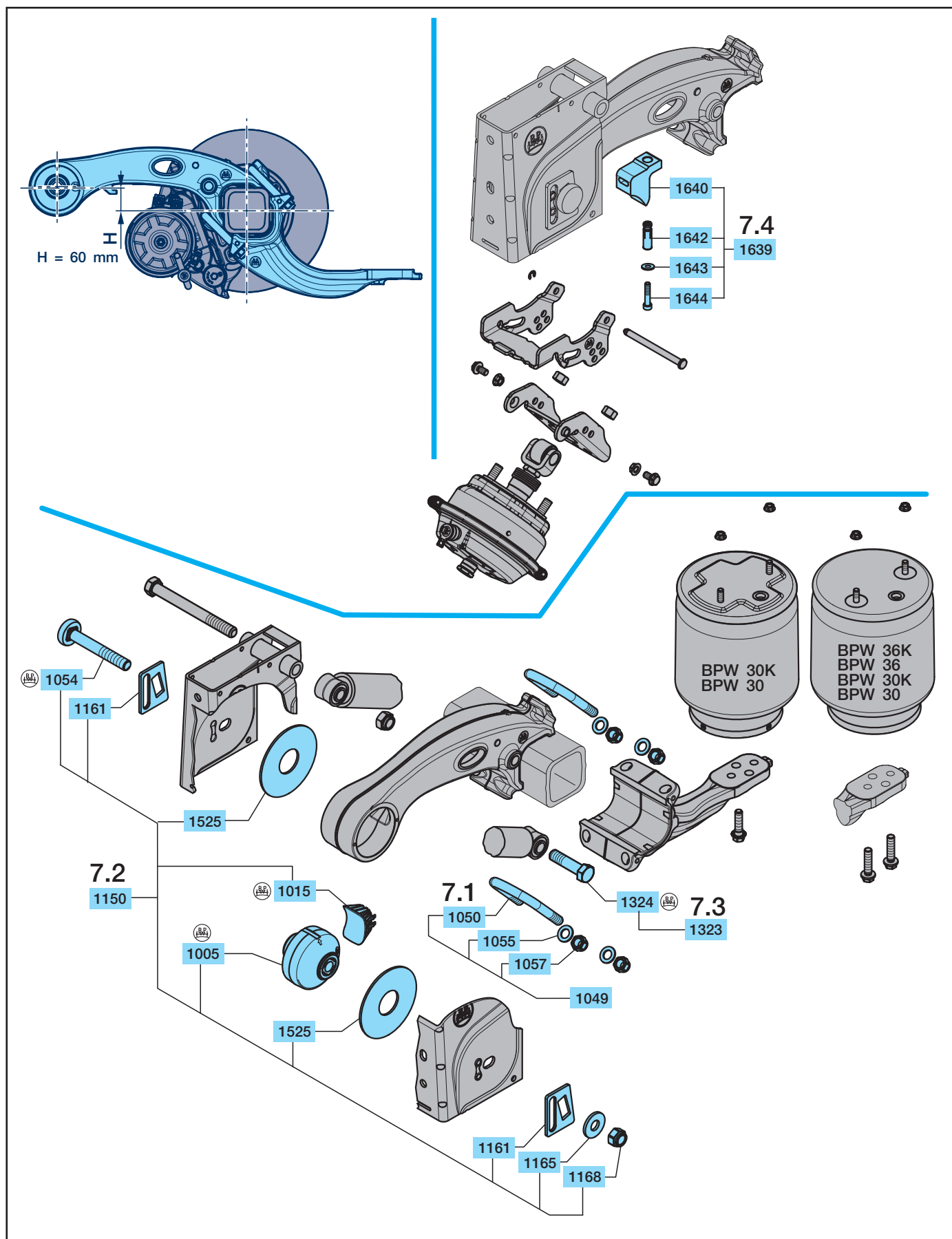
Fig. = left = 09.801.07.91.0

Repair kit spring plates (for 05.145.22.43.0/44.0)

		Axle type	Brake	Year of manuf.
		OT / SLU / ALU	all	all
item	Description	Quantity / Pieces	BPW Code no.	Dimension
1030	Repair kit spring plate for 05.145.22.44.0 item 1032, 1324, 1330		09.801.07.92.0	for 1 axle side
1031	Repair kit spring plate for 05.145.22.43.0 item 1033, 1324, 1330		-	09.801.07.91.0 for 1 axle side
1032	Spring plate, right		03.145.25.22.0	-
1033	Spring plate, left		-	03.145.25.23.0
1324	Hexagon bolt		02.5023.49.80	M 24 x 140 - 8.8
1330	Lock nut		02.5220.74.12	VM 24 - 10

7.1 - 7.4 BPW Repair kits for ECO Air COMPACT

AC



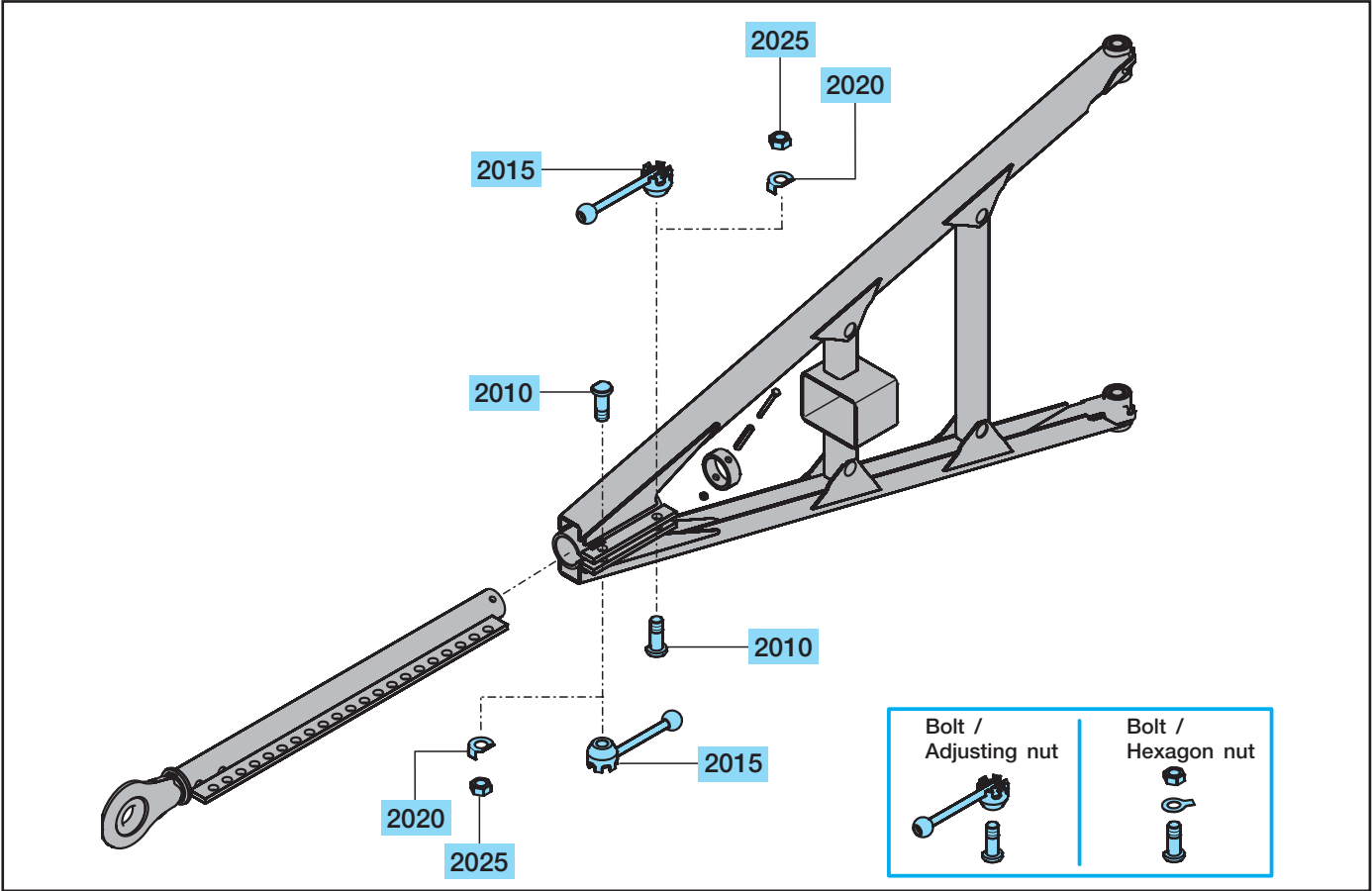
BPW Repair kits for ECO Air COMPACT 7.1 - 7.4

item	Description	Dimension	BPW code no.	Pieces / Axle	ACAU	ACAM	ACBM	ACBO
7.1 Repair kit axle clamping								
1049	Repair kit axle clamping item 1050, 1055, 1057		09.801.08.14.0	2	●	●	●	●
1050	U-bolt		03.138.32.16.0	4	●	●	●	●
1055	Washer	A 21	02.5401.21.10	8	●	●	●	●
1057	Lock nut	M 20 - 10 / SW 30	03.260.04.21.0	8	●	●	●	●
7.2 Repair kit spring pivot bolt bearing								
1150	Repair kit spring pivot bolt bearing item 1005, 1015, 1154 - 1168, 1525		09.801.08.12.0	2	●	●	●	●
1005	Bush	Ø 24 / 43 / 59 / 132 x 112	02.0314.38.00	2	●	●	●	●
1015	Plug	60 x 83.5 x 44	03.379.00.39.0	2	●	●	●	●
1154	Spring pivot bolt	M 24 x 171 / Ø 56	03.340.14.33.0	2	●	●	●	●
1161	Plate (Adjusting plate)	107 x 85/70 x 6	03.281.34.12.0	4	●	●	●	●
1165	Washer	Ø 25 / 60 x 6	03.320.33.28.0	2	●	●	●	●
1168	Lock nut	M 24 / SW 36	03.260.14.13.0	2	●	●	●	●
1525	Washer	Ø 59.1 / 170 x 4.5	03.320.38.29.0	4	●	●	●	●
7.3 Repair kit shock absorber attachment								
1323	Repair kit shock absorber attachment item 1324		09.801.08.11.0	2	●	●	●	●
1324	Hexagon bolt	M 24 x 95 - 8.8 / SW 36	03.340.14.32.0	2	●	●	●	●
7.4 Repair kit shaped part for two-side axle lift								
1639	Repair kit shaped part for two-side axle lift item 1640 - 1644		09.801.08.13.0	2	●	●		
1640	Shaped part	for H = 60	03.001.35.17.0	2	●	●		
1642	Dowel	M 10	02.0130.87.10	2	●	●		
1643	Washer	A 10	02.5401.10.11	2	●	●		
1644	Cylinder head bolt	M 10 x 50 / SW 8	02.5015.27.82	2	●	●		

For assembly and installation instructions see spare parts list EL-Luft.

7 Clamping bolts for drawbars

PZ



Repair kit clamping bolt						
		Application				
				PZL 27, PZL 32, PZGL 26, PZGL 32		
item	Description	Quantity / Pieces	BPW Code no.	Dimension		
2000	Repair kit clamping bolt with adjusting nut item 2010 + 2015		09.801.03.30.0	for 1 connection	-	
2000	Repair kit clamping bolt with hexagon nut item 2010, 2020, 2025		-		05.801.90.13.0	for 1 connection
2010	Threaded bolt	1	03.177.14.29.0	M 24 x 1.5 x 78	03.177.14.29.0	M 24 x 1.5 x 78
2015	Adjusting nut	1	05.265.04.04.0	M 24 x 1.5	-	
2020	Washer	1	-		02.5425.25.04	Ø 25
2025	Hexagon nut	1	-		02.5202.31.82	M 24 x 1.5

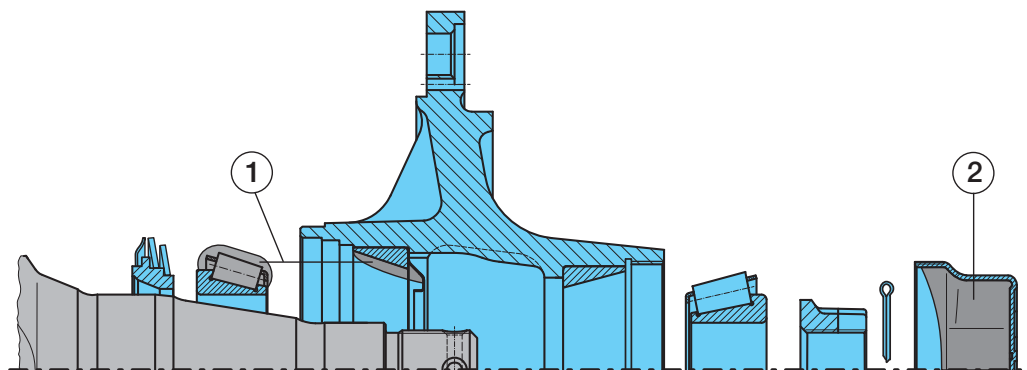
Notes

8.1 Grease filling, bearing adjustment

Conventional hub bearing system

Grease filling per wheel hub

Fig. H.. / K..



Clean taper roller bearings (using diesel oil) thoroughly, dried, check for serviceability and re-grease (observe the current BPW maintenance instructions).

		BPW longlife roller bearing grease ECO-Li 91, quantity per tapered roller bearing			
		① inner		② outer	
Axle load	Axle type	Roller bearings	Quantity	Roller bearings	Quantity
6400 kg	KRBM 6498	33215	170 g	32310	290 g
6000 - 9000 kg	H.. 6.5 - 9 t K.. 6.4 - 9 t N.. 6 - 9 t	33116	170 g	32310	290 g
10000 - 12000 kg	H.. 10 - 12 t K.. 10 - 12 t N.. 10 - 12 t	33118	180 g	33213	320 g
13000 - 14000 kg	H.. 13 - 14 t K.. 13 t N.. 13 t	32219	240 g	33215	500 g
16000 - 18000 kg	H.. 16 - 18 t	32222	400 g	32314	800 g

① Work **BPW longlife roller bearing grease ECO-Li 91** into the spaces between the tapered rollers and the races.
Apply remainder to outer race of the hub.

② The bearing grease for the outer tapered roller bearing is pressed into the bearing as the hub cap filled with grease is screwed on.

Greasing with grease cartridge see page 66.

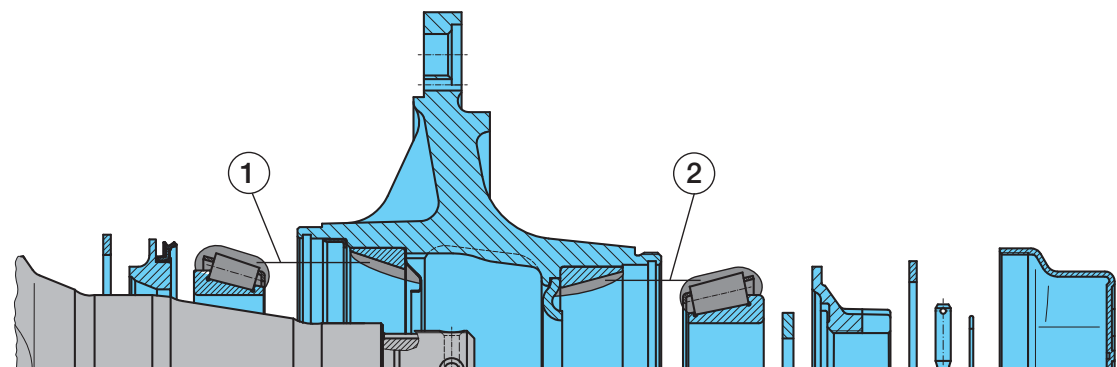
Bearing adjustment

1. Unscrew the hubcap.
2. Remove the axle nut split pin.
3. Tighten the axle nut using a torque wrench to 150 Nm (6 - 14 t) or 350 Nm (16 - 20 t) while simultaneously turning the wheel hub.
(When using the normal axle nut wrench (tool kit), tighten the axle nut until the wheel hub race is slightly braked).
4. Turn the axle nut back to the next possible pin hole. Should they be in line turn back to the next hole (30° at the maximum).
5. Insert the split pin and bend slightly outwards.
6. Refill the hubcap as required with **BPW longlife roller bearing grease ECO-Li 91**, grease thread of the hubcap all round, screw in and tighten to the prescribed tightening torque.

Grease filling, bearing adjustment 8.2

ECO / ECO-MAXX hub system (ECO Unit)

Grease filling per wheel hub



The BPW ECO hub system is designed for longlife lubrication (500.000 km or 3 years under normal conditions). Thereafter clean taper roller bearings (using diesel oil) thoroughly, dried, check for serviceability and re-grease (observe the current BPW maintenance instructions).

		BPW longlife roller bearing grease ECO-Li 91, quantity per tapered roller bearing			
Axle load	Axle type	① inner		② outer	
		Roller bearings	Quantity	Roller bearings	Quantity
6000 - 9000 kg	H.. / SH.. 6.5 - 9 t ECO K.. / SK.. 6.4 - 9 t ECO N.. 6 - 9 t ECO	33116	120 g	32310	120 g
10000 - 12000 kg	H.. / SH.. 10 - 12 t ECO K.. / SK.. 10 - 12 t ECO N.. 10 - 12 t ECO	33118	170 g	33213	120 g
13000 - 14000 kg	H.. 13 - 14 t ECO	32219	230 g	33215	150 g

① and ② Work **BPW longlife roller bearing grease ECO-Li 91** thoroughly into the spaces between the tapered rollers and the races. Apply remainder to outer races in the hub.
Renew the lip seal and smear contact area with **BPW longlife roller bearing grease ECO-Li 91**.
Greasing with grease cartridge see page 68.

Bearing adjustment

1. Unscrew the hubcap.
2. Remove the locking bolt with spring ring.
3. By turning wheel hub simultaneously, tighten axle nut with torque wrench to 150 Nm and turn back to the next possible securing hole, max. 15°. - Because of the asymmetric crown of the axle nut the next securing hole will be reached after max. 15°.
4. Re-assemble locking bolt with spring ring.
5. Grease thread of the hubcap around with **ECO-Li 91**, screw on hubcap and tighten to the prescribed tightening torque (steel hubcap 800 Nm, alloy hubcap 350 Nm).

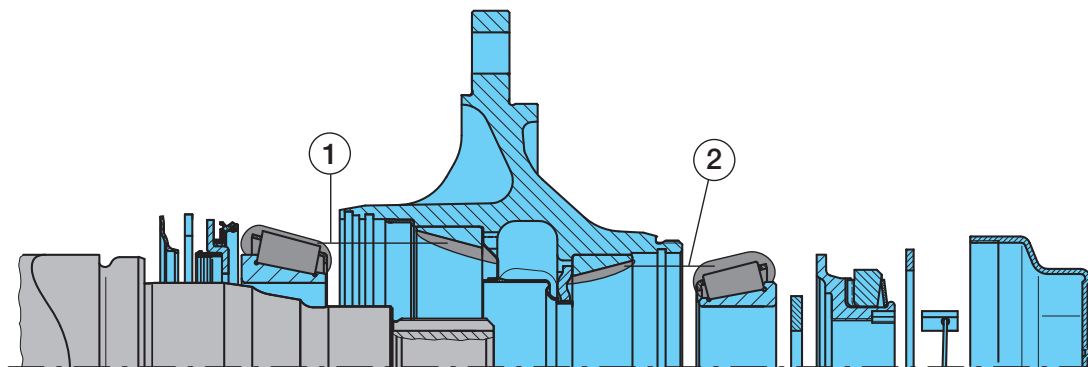
BPW longlife roller bearing grease ECO-Li 91	Container	BPW Code no.
	0.4 kg Cartridge	02.1040.34.00
	2.5 kg Bucket	02.1040.30.00
	5 kg Bucket	02.1040.31.00
	15 kg Bucket	02.1040.52.00
	50 kg Drum	02.1040.33.00

8.3 Grease filling, bearing adjustment

ECO^{Plus} hub system (ECO^{Plus} Unit)

Grease filling per wheel hub

Fig. ECO^{Plus} 8 - 9 t



The ECO^{Plus} hub system is designed for the use of longlife grease. On expiry of the guarantee, the roller bearings, the inside of the hub and the seals are to be thoroughly cleaned (with diesel oil), dried, checked to see if they can be re-used; and regreased every three years when used off-road, or every 5 years when used on the road, within Europe (or every year when off-road and every two years when on the road outside of Europe) (observe the current BPW maintenance instructions).

Apply BPW ECO Protection Grease (via microflow brush) as thin as possible around the stub-axle bearing seats (BPW no. 02.3521.xx.00).

		BPW ECO-Li ^{Plus} special long-life grease, quantity per tapered roller bearing			
Axle load	Axle type	① inner		② outer	
		Roller bearings	Quantity	Roller bearings	Quantity
8000 - 12000 kg	H.. / SH.. 8 - 12 t ECO ^{Plus}	33118	170 g	33213	120 g
	K.. / SK.. 8 - 12 t ECO ^{Plus}		130 g *		90 g *

① and ② Work BPW longlife roller bearing grease ECO-Li^{Plus} thoroughly into the spaces between the tapered rollers and the races. Apply remainder to outer races in the hub.
Renew the lip seal and smear contact area with BPW longlife roller bearing grease ECO-Li^{Plus}.

* Greasing with grease cartridge see page 66.

Bearing adjustment

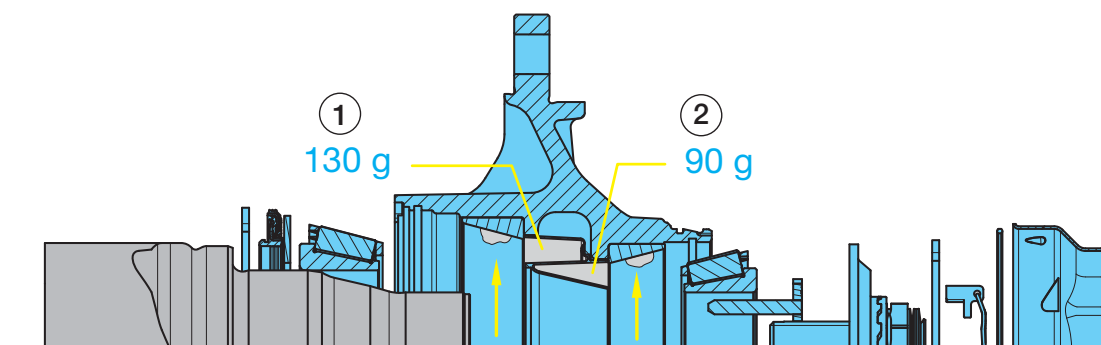
1. Unscrew the hubcap.
2. Remove the hooked spring ring with a wedge from the axle nut.
3. Use a spanner to tighten the axle nut whilst at the same time turning the wheel hub, until the axle nut torque limiter operates (do not use an impact driver).
4. Fit the retaining key in the groove between the axle stub and the nut (do not reset the axle nut).
5. Insert the hooked spring ring, depending on the version, behind the flange on the axle nut or in the thread on the axle stub.
6. Screw on hubcap and tighten to 800 Nm.

BPW longlife roller bearing grease ECO-Li ^{Plus}	Container	BPW Code no.
	0.4 kg Cartridge	02.1040.45.00
	5 kg Bucket	02.1040.47.00
	25 kg Bucket	02.1040.49.00
	50 kg Drum	02.1040.50.00

Grease filling, bearing adjustment 8.4

ECO Plus 2 hub system (ECO Plus 2 Unit)

Grease filling per wheel hub



The ECO Plus 2 hub system is designed for the use of longlife grease. On expiry of the guarantee, the roller bearings, the inside of the hub and the seals are to be thoroughly cleaned (with diesel oil), dried, checked to see if they can be re-used; and regreased every three years when used off-road, or every 5 years when used on the road, within Europe (or every year when off-road and every two years when on the road outside of Europe) (observe the current BPW maintenance instructions). Apply **BPW ECO Protection Grease** as thin as possible and around the entire area of bearing seats of the axle stub.

		BPW ECO-Li ^{Plus} special long-life grease, quantity per tapered roller bearing			
Axle load	Axle type	① inner		② outer	
		Roller bearings	Quantity	Roller bearings	Quantity
6500 - 9000 kg	H.. / SH.. 6.5 - 9 t ECO Plus 2 K.. / SK.. 8 - 9 t ECO Plus 2 N.. 7 - 9 t ECO Plus 2	33118	130 g	33213	90 g

① and ② Clean the grease cartridge and fill it on both sides up to the edge with **BPW ECO-Li^{Plus} special long-life grease**.
Apply a ring-shaped bead of grease to the running surfaces of the outer bearing races.
Apply a coat of **BPW ECO-Li^{Plus} special long-life grease** all around the lip of the seal.

For other procedures see the current maintenance instructions (BPW-W-ECO Plus 1203...e).

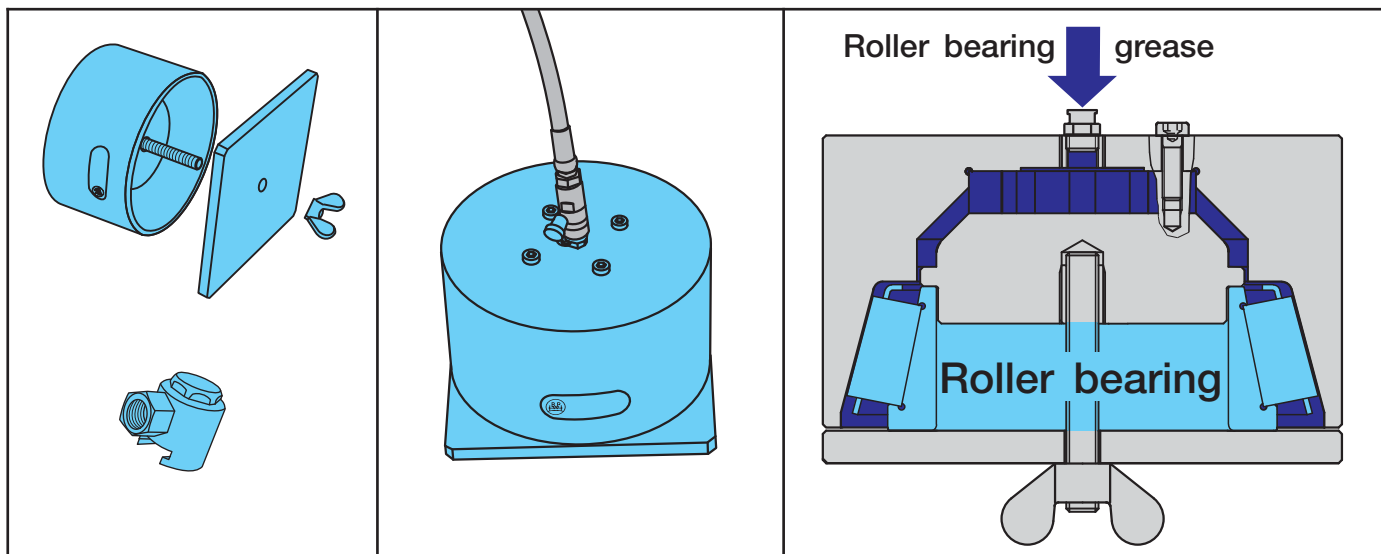
When BPW grease applicators are used there is no need to fill the grease cartridge or to apply the bead of grease.
Greasing with grease cartridge see page 66.

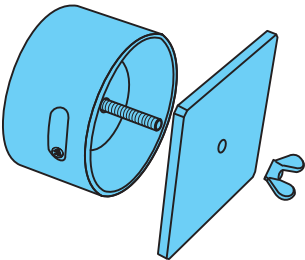
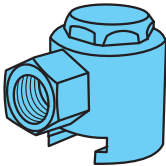
Bearing adjustment

- Undo the hubcap by turning it through approx. 30 degrees in an anticlockwise direction. When turned further the hubcap lifts clearly away from the ECO unit and can be removed by pulling it away.
- Remove the hooked spring ring and retaining key from the axle bolt.
- Tighten the axle bolt while at the same time turning the ECO unit with a 46 mm hexagon spanner until the crown of the axle bolt clicks round.
NB! Do not use an impact driver.
- Insert the retaining key into the recess in the axle bolt and into the crown of the toothed lock washer (do not turn the axle bolt back).
- Insert the hooked spring ring into the groove at the end of the hexagon profile of the axle bolt.
- Insert a new O-ring into the groove in the wheel hub.
- Apply a thin layer of **BPW ECO-Li^{Plus} special longlife grease** to the hubcap in the area of the O-ring contact surface and the bayonet fitting.
- Put the hubcap on. Use the 120 mm hubcap spanner to lock the hubcap in place by turning it through approx. 30 degrees in a clockwise direction, while at the same time pressing on the hubcap. It is firmly in place when it reaches position 2.

NB! Do not use an impact driver - bayonet fitting.

8.5 Grease sprays for greasing taper roller bearings



Grease spray		for taper roller bearing	BPW Code no. grease spray loose	BPW Code no. complete set
	33116	16.076.22935	99.00.000.9.54	
	32310	16.072.22935		
	33118	16.062.22935	99.00.000.9.55	
	33213	16.068.22935		
	Complete set including adapter for flat grease nipple			
Adapter for flat grease nipple			BPW Code no.	
			15.069.22935	

Notes



BPW Repsatz 31111201e

